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**The Progressive Second Price Auction Mechanism for  
Network Resource Sharing (1998)** ([Make](#)

[Corrections](#)) ([20 citations](#))

Aurel A. Lazar, Nemo Semret

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**Abstract:** this paper, we show that the equilibrium holds when PSP is applied by independent resource sellers on each link of a network with arbitrary topology, with users having arbitrary but fixed routes. In this network case, the distributed mechanism has a further incentive compatibility in that submitting the same bid at all links along the route is an optimal strategy for each user, regardless of other players' actions. Thus, PSP constitutes a stable decentralized mechanism for allocating and... ([Update](#))

Context of citations to this paper: [More](#)

.... information, where the solution concept is that of the Nash equilibrium [70] Most of our results of Chapters 2 and 3 appeared in [58, 59, 85, 86]. In Chapter 4, the key building blocks are a heavy traffic approximation to derive a diffusion model of the queueing system...

Cited by: [More](#)

Noam Nisan - Givat Ram Israel ([Correct](#))

Solving Optimization Problems Among Selfish Agents - Amir Ronen Submitted (2000) ([Correct](#))

An Economic Model for the Radio Resource Management.. - Badia, Lindström.. (2003) ([Correct](#))

Similar documents (at the sentence level):

**45.0%:** The Progressive Second Price Auction Mechanism for Network.. - Lazar, Semret (1998) ([Correct](#))

**16.6%:** Design, Analysis and Simulation of the Progressive Second.. - Lazar, Semret ([Correct](#))

Active bibliography (related documents): [More](#) [All](#)

**0.6:** Design and Analysis of the Progressive Second Price Auction.. - Lazar, Semret (1999) ([Correct](#))

**0.6:** Market Mechanisms for Network Resource Sharing - Semret (1999) ([Correct](#))

**0.5:** A Resource Allocation Game with Application to Wireless.. - Nemo Semret (1996) ([Correct](#))

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**0.2:** The Effect of Multiple Time Scales and Subexponentiality .. - Jelenkovic, Lazar.. (1997) ([Correct](#))

**0.2:** Auctions for Network Resource Sharing - Lazar, Semret (1997) ([Correct](#))

**0.2:** Control, Management and Telemedia COMET Research Group - Activity Report Comet ([Correct](#))

Related documents from co-citation: [More](#) [All](#)

**15:** Rules of Encounter: Designing Conventions for Automated Negotiation Among Comput.. (context) - Rosenschein, Zlotkin - 1994

**15:** auctions and competitive sealed tenders (context) - Vickrey - 1961

**14:** Pricing in Computer Networks: Reshaping the Research Agenda - Shenker, Clark et al. - 1995

BibTeX entry: ([Update](#))

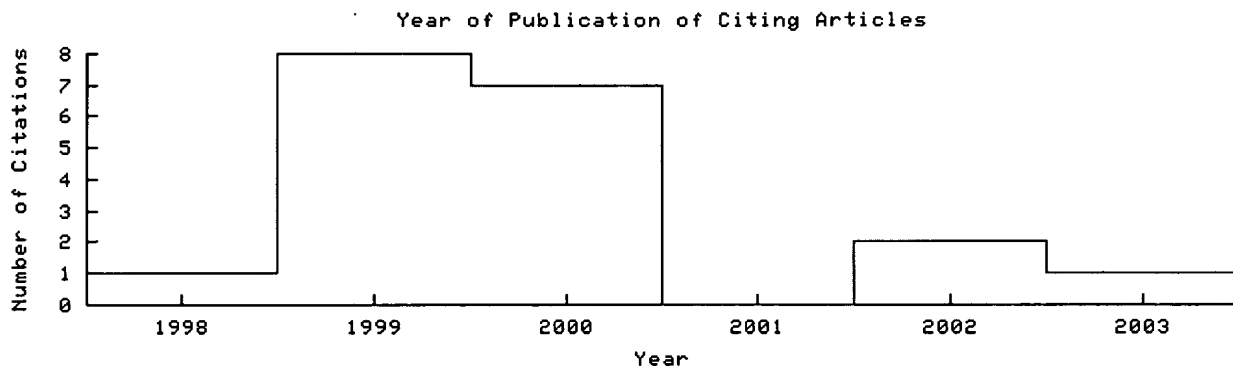
A. A. Lazar and N. Semret. The progressive second price auction mechanism for network resource sharing. In 8th Int. Symp. on Dynamic Games and Applications, Maastricht, July 1998.

<http://citeseer.ist.psu.edu/lazar98progressive.html> [More](#)

```
@misc{ lazar98progressive,  
  author = "A. Lazar and N. Semret",  
  title = "The progressive second price auction mechanism for network resource shari  
  text = "A. A. Lazar and N. Semret. The progressive second price auction mechanism  
    for network resource sharing. In 8 th Int. Symp. on Dynamic Games and Applicatio  
    Maastricht, July 1998.",  
  year = "1998",  
  url = "citeseer.ist.psu.edu/lazar98progressive.html" }
```

**Citations (may not include all citations):**

- 193 Incentives in teams (context) - Groves - 1973
- 192 Multipart pricing of public goods (context) - Clarke - 1971
- 129 Pricing in computer networks: Reshaping the research agenda - Shenker, Clark et al. - 1996
- 91 auctions and competitive sealed tenders (context) - Vickrey - 1961
- 35 Charging and accounting for bursty connections (context) - Kelly - 1997
- 22 Princeton University Press (context) - Wallman - 1948
- 19 Connection establishment in high speed networks (context) - Jiang, Jordan - 1995
- 13 The role of price in the connection establishment process (context) - Jiang, Jordan - 1995
- 9 An economic analysis of network architectures (context) - Gong, Sriganesh - 1996
- 6 analysis and simulation of the progressive second price auct.. (context) - Lazar, Semret - 1998
- 3 Pricing common resources under stochastic demand (context) - Gong, Marble - 1997
- 2 The xbind project (context) - Group



The graph only includes citing articles where the year of publication is known.

**Documents on the same site (<http://comet.columbia.edu/~nemo/work.html>):** [More](#)

The Effect of Multiple Time Scales and Subexponentiality .. - Jelenkovic, Lazar.. (1997) ([Correct](#))

Spot and Derivative Markets in Admission Control - Lazar, Semret (1999) ([Correct](#))

Design, Analysis and Simulation of the Progressive Second.. - Lazar, Semret ([Correct](#))

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File 350:Derwent WPIX 1963-2006/UD,UM &UP=200620

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File 371:French Patents 1961-2002/BOPI 200209

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File 2:INSPEC 1898-2006/Mar w3

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File 35:Disertation Abs Online 1861-2006/Mar

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File 56:Computer and Information Systems Abstracts 1966-2006/Mar

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Set Items Description

S1 1017087 AUCTION? OR NEGOTIAT? OR BARGAIN? OR TRADE? OR TRADING OR -  
BIDDER? ? OR MARKETPLACE OR MARKET()PLACE OR (E OR ELECTRONIC  
OR DYNAMIC OR DIGITAL OR VIRTUAL)()(MARKET? ? OR MARKETPLACE)  
OR EMARKET?

S2 5501 (CALCULAT? OR COMPUTE OR COMPUTES OR COMPUTING OR COMPUTED  
OR DETERMIN? OR ESTIMAT? OR FORMULA? OR ALGORITHM?)(5N)(COST?  
? OR PRICE? ? OR PRICING)(3N)(RESOURCE? ? OR COMMODIT? OR GOO-  
DS OR SERVICE? ?)

S3 3183 PROGRESSIVE()SECOND()PRICE OR PSP

S4 25477 (DIVISIBLE OR DIVID? OR SPLIT? OR PARSE? OR PARSING OR SHA-  
RED OR SHARING OR SEGMENT?)(3N)(RESOURCE? ? OR SERVICE? ? OR -  
COMMODITY OR COMMODITIES OR BANDWIDTH? ? OR OIL)

S5 3649 (SECOND OR NEW OR NEXT OR SUBSEQUENT OR ANOTHER OR FOLLOWI-  
NG)()(BID OR BIDDING OR BIDS OR OFFER OR OFFERS OR OFFERING)

S6 9287 (S1 OR BARTER? OR EXCHANGE OR EXCHANGING) AND (BANDWIDTH OR  
BAND()WIDTH)

S7 1476 S6 AND (PRICE OR PRICING OR COST?)

S8 73 (S3 OR S4 OR S5) AND S7

S9 3 S8 FROM 350,344,347,371

S10 70 S8 NOT S9

S11 34 S10 NOT PY>2000

S12 26 RD (unique items)

? t9/3,k/all, t12/3,k/all

9/3,k/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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016635499 \*\*Image available\*\*

WPI Acc No: 2004-794212/200478

XRPX Acc No: N04-625917

Soft bandwidth service infrastructure, has transmitting unit to  
transmit data traffic such that soft bandwidth traffic is carried  
across virtual tunnels and routine network traffic is carried across  
existing network infrastructure

Patent Assignee: CIVANLAR S (CIVA-I); LIU X (LIUX-I); MOATS R (MOAT-I);  
WEST E H (WEST-I)

Inventor: CIVANLAR S; LIU X; MOATS R; WEST E H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040213221	A1	20041028	US 2001761265	A	20010116	200478 B

Priority Applications (No Type Date): US 2001761265 A 20010116

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20040213221	A1	23	H04L-012/28	

Soft bandwidth service infrastructure, has transmitting unit to transmit data traffic such that soft bandwidth traffic is carried across virtual tunnels and routine network traffic is carried across existing network...

Abstract (Basic):

... The infrastructure has a multiprotocol label switching unit to define soft bandwidth segments between predetermined points on an existing network infrastructure. Integrated segments establish virtual backbone tunnels. A transmitting unit transmits data traffic such that soft bandwidth traffic is carried across the tunnels, and routine network data traffic is carried across the...

... system for establishing virtual backbone tunnels coupled with an existing network infrastructure to carry soft bandwidth traffic...

...Used with an existing network infrastructure for carrying soft bandwidth traffic across the network (claimed...

...has capability to drastically change economics of nationwide networking. The infrastructure provides simplicity of dynamic bandwidth redefinition without having to control transit nodes within a large network or needing a layer-2 overlay. The infrastructure encourages competitive local exchange carriers (CLECs) and subscribers to use the same directory structure for their own internal management system, thus lowering their internal system costs by reusing the same architecture and hardware...

...Title Terms: BANDWIDTH ;

9/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2006 Thomson Derwent. All rts. reserv.

013576314 \*\*Image available\*\*  
WPI Acc No: 2001-060521/200107  
XRPX Acc No: N01-045318

Network resource allocation method for use in multiservice networks such as internet, involves allocating bandwidth to bid with price higher than new bid to which resource is allocated in response to allocated bandwidth

Patent Assignee: UNIV COLUMBIA NEW YORK (UYCO )  
Inventor: LAZAR A; SEMRET N  
Number of Countries: 003 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200057323	A1	20000928	WO 99US6384	A	19990323	200107 B
JP 2002540510	W	20021126	WO 99US6384	A	19990323	200307
			JP 2000607128	A	19990323	

Priority Applications (No Type Date): WO 99US6384 A 19990323

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200057323	A1	E 42	G06F-017/60	
Designated States (National): CA JP US				
JP 2002540510	W	43	G06F-017/60	Based on patent WO 200057323

Network resource allocation method for use in multiservice networks such as internet, involves allocating bandwidth to bid with price higher than new bid to which resource is allocated in response to allocated bandwidth

Abstract (Basic):

... Data indicating bid comprising quantity and price data, and a

*Derwent*

new bid are retrieved. A bandwidth is allocated to the bid with price higher than the price of new bid to which resource is allocated in response to allocated bandwidth. The new bid's cost response to price of bid with lower price than a new bid is calculated and computed cost data is stored.

... A new bid's resource allocation and calculated cost of new bid, transmitted to the bidder. The allocated resource is utilized by the bidder associated with the bid. An INDEPENDENT CLAIM is also included for resource allocation apparatus...

...For allocating network resources such as premium bandwidth in multiservice networks such as ATM, internet, using progressive second price action technique...

...By calculating the cost of resource based on progressive second price auction technique, each bidder is encouraged to bid true valuation for resource and is discouraged from using inefficient bidding...

...object being bid. Creates very efficient mechanism to action and allocates finite resource such as bandwidth among multiple bidders.

...

...The figure shows flow chart describe progressive price auction technique

...Title Terms: BANDWIDTH ;

9/3,K/3 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013491964 \*\*Image available\*\*  
WPI Acc No: 2000-663907/200064  
Related WPI Acc No: 1994-332576  
XRPX Acc No: N00-491930  
Work flow management system for generic process automation engine (GPAE) uses common object request broker architecture (CORBA) and event-driven constraint propagation models to provide scheduling and resource allocation schemes  
Patent Assignee: NORTEL NETWORKS LTD (NORT-N)  
Inventor: BENWELL J; FISZMAN S A; SODHI A  
Number of Countries: 001 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
US 6115646 A 20000905 US 97993530 A 19971218 200064 B  
Priority Applications (No Type Date): US 97993530 A 19971218  
Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
US 6115646 A 30 G06F-019/00

Abstract (Basic):  
... static (hardware / operating system) and dynamic (run-time state) properties. The allocator uses CORBA's trade service which contain a set of process instance objects that control the execution of work...

... The process automation system reduce costs and process execution times, increase quality and support increasing bandwidth demands in a heterogeneous platform environment while sharing global resources and services efficiently...

12/3,K/1 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2006 Institution of Electrical Engineers. All rts. reserv.

09253395 INSPEC Abstract Number: B2005-02-6210L-547, C2005-03-5620-031  
Title: Reliable packet transport technologies for MPLS networks  
Author(s): Nagarajan, R.; Wang, Y.T.; Qureshi, M.  
Author Affiliation: Bell Labs., Lucent Technol., Middletown, NJ, USA  
Conference Title: 11th International Telecommunications Network Strategy and Planning Symposium (IEEE Cat. No.04EX833) p.351-7

Editor(s): Kaindl, H.  
Publisher: VDE Verlag GMBH, Berlin, Germany  
Country of Publication: Germany 464 pp.  
ISBN: 3 8007 2840 0 Material Identity Number: XX-2003-03557  
Conference Title: 11th International Telecommunications Network Strategy  
and Planning Symposium  
Conference Sponsor: mobilkon austria; Telekon Austria; Deutsche Telekom;  
Siemens AG Austria  
Conference Date: 13-16 June 2004 Conference Location: Vienna, Austria  
Language: English  
Subfile: B C  
Copyright 2005, IEE

Abstract: Diverse applications in emerging data services demand flexibility of tradeoffs between resiliency and cost rather than a "one size fits all" approach. In this paper, we discuss resilient packet...

... IP/MPLS-based networks, including two innovative resiliency services: packet 1+1 and real-time shared mesh. These resiliency services cover a whole spectrum of diverse user/application needs in resiliency and provide key tradeoffs in terms of recovery time, failure coverage, and required protection capacity. The packet 1+1 and shared mesh services, in particular, are architected so as to require support only at the network edge in...

... easy interoperability in a multivendor environment and enables service-providers to introduce new services without costly upgrades to their core networks. Also discussed are the building blocks of a working RPM...

...for high-performance with scalability and introduces minimal overhead in packet processing, signaling and network bandwidth.

...Identifiers: network bandwidth

12/3,K/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
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*bad date*

07841304 INSPEC Abstract Number: B2001-03-6210R-011, C2001-03-6130M-009  
Title: An integrated resource negotiation, pricing, and QoS adaptation framework for multimedia applications  
Author(s): Xin Wang; Schulzrinne, H.  
Author Affiliation: Dept. of Comput. Sci., Columbia Univ., New York, NY, USA  
Journal: IEEE Journal on Selected Areas in Communications vol.18, no.12 p.2514-29  
Publisher: IEEE,  
Publication Date: Dec. 2000 Country of Publication: USA  
CODEN: ISACEM ISSN: 0733-8716  
SICI: 0733-8716(200012)18:12L:2514:IRNP;1-O  
Material Identity Number: D958-2001-002  
U.S. Copyright Clearance Center Code: 0733-8716/2000/\$10.00  
Language: English  
Subfile: B C  
Copyright 2001, IEE

Title: An integrated resource negotiation, pricing, and QoS adaptation framework for multimedia applications

Abstract: We study a dynamic, usage- and congestion-dependent pricing system in conjunction with price-sensitive user adaptation of network usage. We first present a resource negotiation and pricing (RNAP) protocol and architecture to enable users to select and dynamically renegotiate network services. We develop mechanisms within the RNAP architecture for the network to dynamically formulate prices and communicate pricing and charging information to the users. We then outline a general pricing strategy in this context. We discuss candidate algorithms by which applications (singly, or as part...

... of transmission parameters. Finally, we present experimental results to show that usage- and congestion-dependent pricing can effectively reduce the blocking probability, and allow bandwidth to be shared fairly among

applications, depending on the elasticity of their respective bandwidth requirements.

Descriptors: costing ;

Identifiers: integrated resource negotiation ; ...

...dynamic pricing system...

...congestion-dependent pricing system...

...usage-dependent pricing system...

... price -sensitive user adaptation...

...resource negotiation and pricing protocol...

... bandwidth sharing ;

12/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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07841303 INSPEC Abstract Number: B2001-03-6210L-162, C2001-03-5620W-067

Title: Pricing , provisioning and peering: dynamic markets for differentiated Internet services and implications for network interconnections

Author(s): Semret, N.; Liao, R.R.-F.; Campbell, A.T.; Lazar, A.A.

Author Affiliation: Invisible Hand Networks Inc., New York, NY, USA

Journal: IEEE Journal on Selected Areas in Communications vol.18, no.12 p.2499-513

Publisher: IEEE,

Publication Date: Dec. 2000 Country of Publication: USA

CODEN: ISACEM ISSN: 0733-8716

SICI: 0733-8716(200012)18:12L:2499:PPPD;1-S

Material Identity Number: D958-2001-002

U.S. Copyright Clearance Center Code: 0733-8716/2000/\$10.00

Language: English

Subfile: B C

Copyright 2001, IEE

Title: Pricing , provisioning and peering: dynamic markets for differentiated Internet services and implications for network interconnections

Abstract: This paper presents a decentralized auction -based approach to pricing of edge-allocated bandwidth in a differentiated services Internet. The players in our network economy model are one raw...

... tier wholeseller/retailer market, which is best interpreted as a "sender-pay" model. with the progressive second price auction mechanism as the basic building block, we conduct a game theoretic analysis, deriving optimal strategies for buyers and brokers, and show the existence of networkwide market equilibria. In addition to pricing, another key consideration in building differentiated network services is the feasibility of maintaining stable and...

... These analytical results are validated with simulations of user and broker dynamics, using the distributed progressive second price auction as the spot market mechanism in a scenario with three interconnected networks, and two services...

Descriptors: costing ;

Identifiers: pricing ; ...

... dynamic markets ; ...

...decentralized auction -based approach...

...edge-allocated bandwidth ; ...

...distributed progressive second price auction ;

12/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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07639212 INSPEC Abstract Number: C2000-08-7210N-098

**Title: MicroISPs: providing convenient and low- cost high- bandwidth Internet access**

Author(s): Brustoloni, J.; Garay, J.

Author Affiliation: Inf. Sci. Res. Center, AT&T Bell Labs., Murray Hill, NJ, USA

Journal: Computer Networks Conference Title: Comput. Netw. (Netherlands) vol.33, no.1-6 p.789-802

Publisher: Elsevier,

Publication Date: June 2000 Country of Publication: Netherlands

CODEN: CNETDP ISSN: 1389-1286

SICI: 1389-1286(200006)33:1/6L.789:MPCC;1-B

Material Identity Number: H263-2000-010

U.S. Copyright Clearance Center Code: 1389-1286/2000/\$20.00

Conference Title: Ninth International World Wide Web Conference

Conference Date: 15-19 May 2000 Conference Location: Amsterdam, Netherlands

Language: English

Subfile: C

Copyright 2000, IEE

**Title: MicroISPs: providing convenient and low- cost high- bandwidth Internet access**

...Abstract: conference centers, cafes, and office or apartment buildings. Users access a MicroISP via a low- cost , high- bandwidth LAN, e.g. Ethernet or WaveLAN. A router connects the MicroISP's LAN to a shared high- bandwidth access link (e.g., DSL or cable) to a conventional ISP. For this service, a...

...eCash, SET, IBM Micro Payments, or Millicent). MicroISPs use IPsec's IKE protocol for securely exchanging authentication keys with paying users. Paying users use IPsec's AH protocol in tunnel mode...

...Identifiers: high- bandwidth Internet access...

... shared high- bandwidth access link...

...authentication key exchange ;

12/3,K/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

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07471753 INSPEC Abstract Number: B2000-02-6150P-034, C2000-02-6150N-183

**Title: A routing algorithm for dynamic multicast trees with end-to-end path length control**

Author(s): Fujinoki, H.; Christensen, K.J.

Author Affiliation: Dept. of Comput. Sci. & Eng., Univ. of South Florida, Tampa, FL, USA

Journal: Computer Communications vol.23, no.2 p.101-114

Publisher: Elsevier,

Publication Date: 15 Jan. 2000 Country of Publication: Netherlands

CODEN: COCOD7 ISSN: 0140-3664

SICI: 0140-3664(20000115)23:2L.101:RADM;1-E

Material Identity Number: H089-2000-002

U.S. Copyright Clearance Center Code: 0140-3664/2000/\$20.00

Language: English

Subfile: B C

Copyright 2000, IEE

Abstract: The novel Path Length Control (PLC) algorithm establishes and maintains multicast trees which maximize the bandwidth to be shared by multiple receivers and which satisfy the maximum path length bounds for each receiver. The PLC algorithm can be implemented as a distributed algorithm, can tradeoff end-to-end delay and bandwidth consumption, and can be implemented for polynomial time execution. Analysis and simulation show that: (a) the PLC algorithm generates multicast trees which consume less bandwidth than those generated by the SPT algorithm while guaranteeing the same shortest path length; and (b) consume less bandwidth than trees generated by the Greedy algorithm with only a moderate increase in path length. The PLC algorithm is more flexible and has a lower cost



than a combined SPT and Greedy algorithm.  
Descriptors: **bandwidth allocation...**  
...Identifiers: **bandwidth maximization...**

... **bandwidth consumption**

12/3,K/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

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07434936 INSPEC Abstract Number: B2000-01-6150P-034, C2000-01-3370G-002

Title: **Distributed dynamic routing of virtual circuits in ATM network under different admission control and bandwidth allocation policies**

Author(s): Bolla, R.; Davoli, F.; Marchese, M.

Author Affiliation: Dept. of Commun. Comput. & Syst. Sci., Geneva Univ., Switzerland

Journal: International Journal of Parallel and Distributed Systems & Networks vol.2, no.4 p.225-34

Publisher: Acta Press,

Publication Date: 1999 Country of Publication: USA

ISSN: 1206-2138

SICI: 1206-2138(1999)2:4L.225:DDR;1-3

Material Identity Number: H346-1999-005

Language: English

Subfile: B C

Copyright 1999, IEE

Title: **Distributed dynamic routing of virtual circuits in ATM network under different admission control and bandwidth allocation policies**

...Abstract: divided into classes that are homogeneous with respect to performance requirements and statistical characteristics. The **bandwidth** of each link in the network is shared among the classes according to some specified...

... quality of service) are available; then a routing decision is taken by choosing the least "cost" link, according to a specific criterion. The link **costs** are dynamically updated for all traffic classes by means of local information and aggregate information exchanged among neighbouring nodes. **Costs** are based on a measure of the link saturation, in terms of some "distance" from...

...strategies are described and compared, which essentially differ in terms of the way the link **bandwidth** is allocated among the traffic classes (and, accordingly, how the CAC operation is performed).

...Descriptors: **bandwidth allocation**

...Identifiers: **bandwidth allocation policies...**

...link **bandwidth sharing policy...**

...least- **cost link...**

...dynamically updated link **costs ; ...**

...local information **exchange ; ...**

...aggregate information **exchange ;**

12/3,K/7 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

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07375739 INSPEC Abstract Number: B1999-11-6210L-103, C1999-11-5620W-052

Title: **Market pricing of differentiated Internet services**

Author(s): Semret, N.; Liao, R.R.-F.; Campbell, A.T.; Lazar, A.A.

Author Affiliation: Center for Telecommun. Res., Columbia Univ., New York, NY, USA

Conference Title: 1999 Seventh International workshop on Quality of Service. IWQoS'99. (Cat. No.98EX354) p.184-93

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 1999 Country of Publication: USA vii+263 pp.

ISBN: 0 7803 5671 3 Material Identity Number: XX-1999-00454

U.S. Copyright Clearance Center Code: 0 7803 5671 3/99/\$10.00  
Conference Title: Proceedings of IWQoS'99 - Seventh International  
Workshop on Quality of Service  
Conference Sponsor: IEEE Commun. Soc.; IFIP WG6.1; ACM SIGCOMM  
Conference Date: 31 May-4 June 1999 Conference Location: London, UK  
Language: English  
Subfile: B C  
Copyright 1999, IEE

Title: Market pricing of differentiated Internet services  
Abstract: This paper presents a decentralized auction-based approach to pricing of edge-allocated bandwidth in a differentiated services model for the Internet. The players in this architecture are users, one raw-capacity seller per network and one broker per service per network. With the progressive second price auction mechanism as the basic building block, we conduct a game theoretic analysis, deriving optimal strategies...  
Descriptors: costing ;  
Identifiers: market pricing ; ...  
... auction-based approach...  
...edge-allocated bandwidth ; ...  
... progressive second price auction mechanism

12/3,K/8 (Item 8 from file: 2)  
DIALOG(R)File 2:INSPEC  
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06267565 INSPEC Abstract Number: B9606-6210L-178, C9606-5620-072  
Title: An algorithm for designing interconnection of LANs with a connectionless service over ATM  
Author(s): Godron, F.-X.; Boissin, N.; Sutter, A.  
Author Affiliation: PAA, CNET, Issy-les-Moulineaux, France  
Conference Title: 3rd International Conference on Telecommunication Systems. Modeling and Analysis p.273-7  
Publisher: Vanderbilt Univ, Nashville, TN, USA  
Country of Publication: USA xiii+551 pp.  
Material Identity Number: XX95-00452  
Conference Title: Proceedings of Third International Conference on Telecommunication Systems Modelling and Analysis  
Conference Sponsor: Bell South Telecommun.; Motorola Satellite Commun.; Owen Graduate School of Manage  
Conference Date: 16-19 March 1995 Conference Location: Nashville, TN, USA  
Language: English  
Subfile: B C  
Copyright 1996, IEE

Abstract: Interconnecting remote LANs (local area networks) appears to be a major necessity for many corporations. Exchange of information between geographically dispersed sites is a major aspect of decision making. With multimedia applications, the demand for higher bandwidth and the lack of flexibility of classical services such as X25 or leased lines creates...

... overlay CBDS (connectionless broadband data service) built over an ATM (asynchronous transfer mode) infrastructure. By sharing resources, this network will be able to provide a high bandwidth interconnection service at a low price. This type of network is interesting from the operators point of view because it concentrates several traffic flows in virtual paths (VPs), decreasing transmission costs. The VP rate should be as high as possible, according to the bit rate capacity...  
...Identifiers: high bandwidth interconnection service...

...transmission costs ;

12/3,K/9 (Item 9 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2006 Institution of Electrical Engineers. All rts. reserv.

06242626 INSPEC Abstract Number: B9605-6210L-172, C9605-6150N-091  
Title: Prefetching from a broadcast disk  
Author(s): Acharya, S.; Franklin, M.; Zdonik, S.  
Author Affiliation: Brown Univ., Providence, RI, USA  
Conference Title: Proceedings of the Twelfth International Conference on  
Data Engineering (Cat. No.96CB35888) p.276-85  
Editor(s): Su, S.Y.W.  
Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA  
Publication Date: 1996 Country of Publication: USA xx+678 pp.  
ISBN: 0 8186 7240 4 Material Identity Number: xx96-00892  
U.S. Copyright Clearance Center Code: 1063-6382/96/\$5.00  
Conference Title: Proceedings of the Twelfth International Conference on  
Data Engineering  
Conference Sponsor: IEEE Comput. Soc. Tech. Committee on Data Eng  
Conference Date: 26 Feb.-1 March 1996 Conference Location: New  
Orleans, LA, USA  
Language: English  
Subfile: B C  
Copyright 1996, IEE

...Abstract: as a means to efficiently deliver data to clients in  
"asymmetric" environments where the available bandwidth from the server  
to the clients greatly exceeds the bandwidth in the opposite direction. A  
previous study investigated the use of cost based caching to improve  
performance when clients access the broadcast in a demand driven manner...

... that in contrast to traditional environments, prefetching can be  
performed without placing additional load on shared resources . We argue  
for the use of a simple prefetch heuristic called PT and show that PT  
balances the cache residency time of a data item with its bandwidth  
allocation. Because of this tradeoff , PT is very tolerant of variations  
in the broadcast program. We describe an implementable approximation...

...Identifiers: cost based caching...

... shared resources ; ...

... bandwidth allocation

12/3,K/10 (Item 10 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2006 Institution of Electrical Engineers. All rts. reserv.

05982168 INSPEC Abstract Number: B9508-6430D-002  
Title: Networking requirements for interactive video on demand  
Author(s): Nussbaumer, J.-P.; Patel, B.V.; Schaffa, F.; Sterbenz, J.P.G.  
Author Affiliation: Eurodec-Sagem, Paris, France  
Journal: IEEE Journal on Selected Areas in Communications vol.13, no.5  
p.779-87  
Publication Date: June 1995 Country of Publication: USA  
CODEN: ISACEM ISSN: 0733-8716  
U.S. Copyright Clearance Center Code: 0733-8716/95/\$04.00  
Language: English  
Subfile: B  
Copyright 1995, IEE

Abstract: A significant driver for the consumer use of high bandwidth  
in the near future will be interactive video on demand (IVOD). A range of  
service types can be deployed, based on a differing sophistication, which  
must be traded against the network costs ( bandwidth ) and component  
costs (switch complexity and memory). The potential aggregate bandwidth  
required is huge ( $O(1Pb/s)$ ), and thus it is essential to properly engineer  
the network to reduce the bandwidth required. This paper describes a  
variety of IVOD scenarios, and introduces a cost function that captures  
the combined bandwidth and storage requirements of the network. This  
cost function is used to compare different network engineering  
alternatives, particularly program caching and stream sharing. The effects  
of nonlinear pricing and differing weights of bandwidth and storage are  
also reflected by the cost function. This cost function can be used by  
network designers to determine optimal topology, sharing, and caching  
strategies for desired bandwidth versus memory costs in a particular

network deployment. In addition, a simulation model is used to evaluate caching...

... tree, above the head end switch in the network hierarchy. We also observe that the bandwidth savings in sharing streams (actually buffered windows of program content) is fairly small for user behavior based on...

... overall intent of this work is to evaluate the effects of various server, cache, and sharing strategies on the bandwidth and storage requirements of the network and their proper placement within the network.

...Identifiers: high bandwidth ; ...

...network costs ; ...

...component costs ; ...

...nonlinear pricing ; ...

... cost function

12/3,K/11 (Item 11 from file: 2)

DIALOG(R)File 2:INSPEC

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05669888 INSPEC Abstract Number: B9406-6210C-041

Title: Comparison of virtual path bandwidth assignment and routing methods

Author(s): Hughes, D.; Wajda, K.

Journal: Annales des Telecommunications vol.49, no.1-2 p.80-9

Publication Date: Jan.-Feb. 1994 Country of Publication: France

CODEN: ANTEAU ISSN: 0003-4347

Language: English

Subfile: B

Title: Comparison of virtual path bandwidth assignment and routing methods

Abstract: The virtual path (VP) can simplify ATM network management by minimizing connection routing and admission costs and by facilitating the layered control of resources. However fully exploiting these advantages may lead...

... assumed low path capacities will lead to low network utilisation. This paper carefully examines the trade-off between simplification through traffic separation and improved efficiency due to traffic consolidation. We review existing VP bandwidth assignment and control techniques and propose a new VP tagging control method. A comparison shows that by permitting resource sharing between paths it is possible to influence significantly the trade-off between simplified network management and multiplexing gain from traffic consolidation.

Identifiers: virtual path bandwidth assignment...

... resource sharing ;

12/3,K/12 (Item 12 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

05549260 INSPEC Abstract Number: B9401-6260-220

Title: A TDMA based access control scheme for APON's

Author(s): Angelopoulos, J.D.; Venieris, I.S.; Stassinopoulos, G.I.

Author Affiliation: Dept. of Electr. & Comput. Eng., Nat. Tech. Univ. of Athens, Greece

Journal: Journal of Lightwave Technology vol.11, no.5-6 p.1095-103

Publication Date: May-June 1993 Country of Publication: USA

CODEN: JLTEDG ISSN: 0733-8724

U.S. Copyright Clearance Center Code: 0733-8724/93/\$03.00

Language: English

Subfile: B

Abstract: The cost of a dedicated fiber access to the broadband

integrated services digital network (B-ISDN) is too high for small business and residential customers, necessitating some form of resource sharing. Combining asynchronous transfer mode (ATM) over a passive optical network (APON) with a suitable medium access control (MAC) protocol can provide significant cost savings and a reasonable bandwidth. In this way the customer line section can support broadband services at an early stage...

... emphasis on service transparency aspects with an aim to incur minimal changes to the local exchange for APON connections. Sharing is effected through a reservation-based time-division multiple-access method. The proposed MAC protocol is characterized by dynamic bandwidth allocation and multiple cell transmissions from each network termination in the upstream direction. This reduces...

...Identifiers: dynamic bandwidth allocation...

12/3,K/13 (Item 13 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

05412418 INSPEC Abstract Number: B9307-6210L-071, C9307-5620L-034

Title: A class of MAC protocols for sharing ATM local access PONs

Author(s): Angelopoulos, J.D.; Venieris, I.S.; Stassinopoulos, G.I.

Author Affiliation: Div. of Comput. Sci., Nat. Tech. Univ. of Athens, Greece

Conference Title: Proceedings. 17th Conference on Local Computer Networks (Cat. No.92TH0473-9) p.594-602

Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA

Publication Date: 1992 Country of Publication: USA xvi+710 pp.

ISBN: 0 8186 3095 7

U.S. Copyright Clearance Center Code: 0742-1303/92/\$3.00

Conference Sponsor: IEEE Comput. Soc.

Conference Date: 13-16 Sept. 1992 Conference Location: Minneapolis, MN, USA

Language: English

Subfile: B C

Abstract: The cost of a dedicated fiber access to the B-ISDN is too high for small business and residential customers, necessitating some form of resource sharing. Combining ATM over a passive optical network (APON) with a suitable medium access control (MAC) protocol can provide significant cost savings and a reasonable bandwidth. In this way, this customer section can also enjoy introduction of broadband services at a...

... is placed on service transparency with an aim to incur minimal changes to the local exchange (LEX) when an APON is attached. Sharing is effected by a reservation-based time division...

...Identifiers: resource sharing ; ...

... cost savings...

...local exchange ;

12/3,K/14 (Item 14 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2006 Institution of Electrical Engineers. All rts. reserv.

05219560 INSPEC Abstract Number: B9210-6150C-002

Title: Fair integration of routing and flow control in communication networks

Author(s): Suk-Gwon Chang

Author Affiliation: Dept. of Bus. Adm., Hanyang Univ., Seoul, South Korea

Journal: IEEE Transactions on Communications vol.40, no.4 p.821-34

Publication Date: April 1992 Country of Publication: USA

CODEN: IECMBT ISSN: 0090-6778

U.S. Copyright Clearance Center Code: 0090-6778/92/\$03.00

Language: English

Subfile: B

...Abstract: three conflicting performance criteria in modern flow-controlled communication networks, are investigated, and an optimal

tradeoff among them is defined. Several fair bandwidth sharing schemes are introduced and compared with each other for a variety of network configurations. The...

... shown that the OOP can be found by solving a variant of the multicommodity convex cost network flow problem. An algorithm for this problem is developed and tested for a number...

...Identifiers: fair bandwidth sharing schemes...

...multicommodity convex cost network flow problem...

12/3,K/15 (Item 15 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2006 Institution of Electrical Engineers. All rts. reserv.

03550476 INSPEC Abstract Number: B85063461  
Title: The benefits of integration  
Author(s): Davidson, T.S.  
Journal: Electronics Weekly no.1281 p.16-17  
Publication Date: 21 Aug. 1985 Country of Publication: UK  
CODEN: ELWYAX ISSN: 0013-5224  
Language: English  
Subfile: B

...Abstract: voice and data on a single network based on PABXs. This can lead to reduced costs, increased availability and flexibility. Transmission costs for PABX systems are tending to converge to an installation cost per metre irrespective of bandwidth. For example, it will not cost much more in the future for a high bandwidth fibre compared to a single twisted cable pair, and the predominant cost will be the labour of installation rather than the cost of the medium. Also, the number of links between switching nodes needs to be minimised by the use of high bandwidth links as a shared resource for transmitting all types of information. The Integrated Services Private Branch Exchange (ISPBX), which provides the capability of integrating voice and data at a node, may be...

...Identifiers: reduced costs ; ...

...installation cost per metre...

... bandwidth ; ...

...high bandwidth links...

...Integrated Services Private Branch Exchange ;

12/3,K/16 (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
(c) 2006 Proquest Info&Learning. All rts. reserv.

01747264 ORDER NO: AADAA-I9974064  
Upstream media access control protocol for integrated services (UPIS) in Cable TV networks  
Author: De, Santanu  
Degree: Ph.D.  
Year: 2000  
Corporate Source/Institution: Illinois Institute of Technology (0091)  
Source: VOLUME 61/05-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 2618. 140 PAGES  
ISBN: 0-599-79603-0

...like data, voice, video and multimedia from different applications share a single channel in a cost-effective manner maintaining the quality of services (bandwidth availability, delay limitation, packet loss rate and variation of delays). Various data types (bit rates) must be supported including ATM packets. The dynamic bandwidth allocation, partial sensing, priority operation including bursty traffic flow must be included in Cable TV...

...provide an efficient data transmission scheme for cable TV operations.

The random access scheme also negotiates for quality of services, channel selection process, and channel slot allocation process. Due to priority...

...on-demand channel access and random access with backoff strategy are discussed here. Also, channel resource sharing, slot reservation, connection-oriented operation and jitter effect reductions are discussed. The simulation results show...

12/3,K/17 (Item 2 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
(c) 2006 ProQuest Info&Learning. All rts. reserv.

01705233 ORDER NO: AAD99-30793  
MARKET MECHANISMS FOR NETWORK RESOURCE SHARING (DISTRIBUTED MARKET,  
PROGRESSIVE SECOND PRICE , AUCTION )  
Author: SEMRET, NEMO  
Degree: PH.D.  
Year: 1999  
Corporate Source/Institution: COLUMBIA UNIVERSITY (0054)  
Source: VOLUME 60/05-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 2276. 144 PAGES

MARKET MECHANISMS FOR NETWORK RESOURCE SHARING (DISTRIBUTED MARKET,  
PROGRESSIVE SECOND PRICE , AUCTION )

...of this thesis is the design and analysis of decentralized and distributed market mechanisms for resource sharing in multiservice networks. The motivation for a market-based approach is twofold. First, in modern multiservice networks, resources such as bandwidth and buffer space have different value to different users, and these valuations cannot, in general...

...resources themselves are distributed, and often, not subject to any single authority.

We present the Progressive Second Price auction (PSP), a new decentralized mechanism for allocating variable-size shares of a resource among multiple users. Under elastic demand, the PSP auction is incentive compatible and stable, in that it has a "truthful"  $\epsilon$ -Nash equilibrium where all players bid at prices equal to their marginal valuation of the resource. PSP is efficient in that the equilibrium allocation maximizes total user value. In a dynamic setting...

...to equilibrium, when users are using an optimal normal form strategy. We then extend the PSP auction to be applied by independent resource sellers on each element of a network with arbitrary...

...constraints. We derive an optimal truthful strategy for coordinated bidding for a player participating in auctions on multiple resource elements, and show that the equilibrium and efficiency results still hold. We also show how our networked auction model can apply to virtual networks, virtual paths, edge capacity allocation networks.  
We then turn...

...reservations and admission control for connection oriented network services. We propose a new approach to pricing of capacity in service systems with blocking, using spot and derivative market mechanisms. A second-price auction among arrivals grouped in batches gives rise to the *spot market* of usage charges. A reservation guaranteeing access for an arbitrary duration with a usage price below the bid can be made at any time before or during service, thus eliminating...

...the corresponding two-stage queueing system, we compute the reservation fee as the fair market price of a hold option. We validate this approach with simulations driven by a real traffic...

...access modem-pool.

Finally, we present a decentralized, distributed, flexible software architecture implementing the above pricing systems.

12/3,K/18 (Item 3 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
(c) 2006 ProQuest Info&Learning. All rts. reserv.

01690541 ORDER NO: AAD99-19106  
DATA SHARING IN INTERACTIVE CONTINUOUS MEDIA SERVERS (BUFFER SHARING,  
BATCHING, MULTIMEDIA SYSTEMS)  
Author: SHI, WEIFENG  
Degree: PH.D.  
Year: 1998  
Corporate Source/Institution: UNIVERSITY OF SOUTHERN CALIFORNIA (0208)  
Source: VOLUME 60/02-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 721. 77 PAGES

...of clients. Assigning an individual disk stream for each client may require very high disk bandwidth from a server. This makes the disk bandwidth a bottleneck resource, restricting the number of concurrent displays. One solution is to introduce additional disk drives into the server, however, this might result in a significant system cost that would render the system economically inviable. In this dissertation, we propose novel data sharing techniques to resolve the disk bandwidth bottleneck while making the overall system more cost-effective.

We investigate two approaches: buffer sharing and batching. With buffer sharing, if one display...

...with no disk access. We propose a buffer sharing scheme that strikes a balance in trading memory for disk bandwidth to prevent system bottlenecks (either memory or disk bandwidth). Moreover, this scheme minimizes the system cost to meet a prespecified performance objective. With batching, requests are delayed in the hope of...

...data sharing among batches and support VCR operations. The local client storage reduces the disk bandwidth requirement at server side dramatically, however, it requires more resource (both disk bandwidth and memory) at client side which may diminish the cost-effectiveness of the environment. When compared with each other, batching with local storage distributes resources into each client, whereas buffer sharing centralizes resources in the server. This dissertation demonstrates that buffer sharing is a more cost-effective solution.

12/3,K/19 (Item 4 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
(c) 2006 ProQuest Info&Learning. All rts. reserv.

01279717 ORDER NO: AAD93-05558  
MULTIPROCESSOR COMMUNICATIONS: DESIGN AND TECHNOLOGY (PARALLEL PROCESSING,  
SYNCHRONIZATION)  
Author: HSU, TSUN-YUK  
Degree: PH.D.  
Year: 1992  
Corporate Source/Institution: UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN  
(0090)  
Source: VOLUME 53/11-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 5819. 203 PAGES

...reducing the latency of hot-spot traffic. Our results indicate that a single-stage shuffle-exchange network with combining hardware is an attractive option, in terms of improved performance at reasonable cost. The second part of the dissertation focuses on the effect of packaging constraints on network...

...utilize resources efficiently and circumvent implementational difficulties. We find that clustering allows the construction of shared, high bandwidth channels, which are more efficient than dedicated, low bandwidth channels. However, the relative performance of the networks we studied is dependent on system configuration...

12/3,K/20 (Item 1 from file: 99)  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2006 The HW Wilson Co. All rts. reserv.



1351839 H.W. WILSON RECORD NUMBER: BAST96036701  
Frame-buffer wars: new directions in PC graphics  
Kocsis, David;  
EDN v. 41 (May 23 '96) p. 121-2+  
DOCUMENT TYPE: Feature Article ISSN: 0012-7515

...ABSTRACT: combines the system memory with the graphics frame buffer. All systems would use UMA if bandwidth constraints did not exist, but as graphic subsystems systems are great consumers of memory bandwidth, sharing the system memory with the graphics subsystem would be impractical. Despite the bandwidth advantages of dedicated frame buffers, the high price and periodic shortages of memory make UMA an important idea to consider. Even with performance limitations and design trade-offs, UMA has a place in the 1996 graphics market.

12/3,K/21 (Item 1 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

09030065  
VSNL plans test-calls to explore web technology  
INDIA: VSNL TO TEST WEB-BASED TELEPHONY  
Economic Times (YZY) 27 Nov 1998 p.1  
Language: ENGLISH

Videsh Sanchar Nigam Ltd (VSNL) of India has installed an Internet exchange to test web-based telephony, beginning from the first week of December 1998. Mr Amitabh...

...to make calls via the Internet to any part of the world at a lower cost. He also added that if Internet telephony is allowed by the Indian government, the prices...

... reality in India several obstacles would have to be cleared including the question of revenue sharing and increasing the bandwidth of VSNL.

12/3,K/22 (Item 1 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
(c)2006 Japan Science and Tech Corp(JST). All rts. reserv.

03976219 JICST ACCESSION NUMBER: 99A0264084 FILE SEGMENT: JICST-E  
Traffic Control Method of Multi-stage ATM Switching Systems Using WDM Grouped Links.  
NAKAI KOHEI (1); OKI EIJI (1); YAMANAKA NAOAKI (1)  
(1) Ntt Nettowakusabisushisutemuken  
Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report  
(Institute of Electronics, Information and Communication Enginners),  
1999, VOL.98,NO.568(OC98 77-86), PAGE.37-42, FIG.9, REF.3  
JOURNAL NUMBER: S0532BBG  
UNIVERSAL DECIMAL CLASSIFICATION: 621.395.33/.38 621.391.6  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Journal  
ARTICLE TYPE: Original paper  
MEDIA TYPE: Printed Publication

...ABSTRACT: stage ATM switching systems that uses optical WDM(wavelength division multiplexing) grouped links and dynamic bandwidth sharing. In proposed switching systems, each port of basic switch monitors the residual bandwidth, and each LU(Line Unit) periodically obtain the congestion information using by OAM cells. We...  
...and the appropriate wavelength signal speed can be determined to implement the switch in a cost-effective manner. (author abst.)  
...DESCRIPTORS: exchange system

12/3,K/23 (Item 2 from file: 94)  
DIALOG(R)File 94:JICST-EPlus  
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03705136 JICST ACCESSION NUMBER: 98A0805185 FILE SEGMENT: JICST-E

**Performance Evaluation of ATM Switch Architecture Using WDM Grouped Links.**

NAKAI K (1); OKI E (1); YAMANAKA N (1)

(1) Ntt Network Service Systems Lab., Tokyo, Jpn

Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku (IEIC Technical Report  
(Institute of Electronics, Information and Communication Engineers),  
1998, VOL.98, NO.176 (SSE98 42-50), PAGE.43-48, FIG.10, REF.11

JOURNAL NUMBER: S0532BBG

UNIVERSAL DECIMAL CLASSIFICATION: 621.395.33/.38 621.391.6

LANGUAGE: English COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

...ABSTRACT: stage ATM switch architecture that uses optical WDM (wavelength division multiplexing) grouped links and dynamic bandwidth sharing. The proposed architecture has two features. The first is the use of WDM technology which...

...used in the system proportional to system size. The second is the use of dynamic bandwidth sharing among WDM grouped links. This prevents the statistical multiplexing gain offered by WDM from falling even if switching system becomes large. A performance evaluation confirms the scalability and cost-effectiveness of the proposed architecture. It is scalable in terms of the number of cables...

...how the appropriate wavelength signal speed can be determined to implement the switch in a cost-effective manner. Therefore, the proposed architecture will suit future high-speed multimedia ATM networks. (author...

...DESCRIPTORS: cost analysis...

...communication exchanging ;

...BROADER DESCRIPTORS: exchange ;

12/3,K/24 (Item 1 from file: 23)

DIALOG(R) File 23: CSA Technology Research Database

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0005952410 IP ACCESSION NO: 544596

**Integrated resource negotiation , pricing , and QoS adaptation framework for multimedia applications**

Wang, Xin; Schulzrinne, Henning  
Columbia Univ, New York, NY, USA

IEEE J SEL AREAS COMMUN, v 18, n 12, p 2514-2529, Dec. 2000  
PUBLICATION DATE: 2000

PUBLISHER: IEEE, PISCATAWAY, NJ, (USA)

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

ISSN: 0733-8716

FILE SEGMENT: Computer & Information Systems Abstracts

**Integrated resource negotiation , pricing , and QoS adaptation framework for multimedia applications**

ABSTRACT:

We study a dynamic, usage- and congestion-dependent pricing system in conjunction with price-sensitive user adaptation of network usage. We first present a resource negotiation and pricing (RNAP) protocol and architecture to enable users to select and dynamically renegotiate network services. We develop mechanisms within the RNAP architecture for the network to dynamically formulate prices and communicate pricing and charging information to the users. We then outline a general pricing strategy in this context. We discuss candidate algorithms by which applications (singly, or as part...

...of transmission parameters. Finally, we present experimental results to show that usage- and congestion-dependent pricing can effectively reduce

the blocking probability, and allow bandwidth to be shared fairly among applications, depending on the elasticity of their respective bandwidth requirements.

DESCRIPTORS: Quality of service; Congestion control (communication);  
Network protocols; Algorithms; Telecommunication traffic; Bandwidth ;  
Computer networks; Resource allocation; Adaptive systems  
IDENTIFIERS: Integrated resource negotiation ; Congestion dependent  
pricing system; Resource negotiation and pricing protocol

12/3,K/25 (Item 2 from file: 23)  
DIALOG(R)File 23:CSA Technology Research Database  
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0005156876 IP ACCESSION NO: N97-19220  
LaserCom System Architecture with Reduced Complexity (Patent)

LESH, JAMESR; CHEN, C H I E N-C H U N G; ANSARI, H O M A-Y O O N, inventors  
National Aeronautics and Space Administration. Pasadena Office, CA.  
PUBLICATION DATE: 1996

CONFERENCE:  
, UNITED STATES

DOCUMENT TYPE: Patent  
RECORD TYPE: Abstract  
LANGUAGE: ENGLISH  
REPORT NO: NASA-CASE-NPO-19069-1-CU; NIPS-97-25842  
FILE SEGMENT: Aerospace & High Technology

ABSTRACT:  
... functions are critical to spaceborne laser communication systems. In the present invention a single high bandwidth CCD detector is used to perform both spatial acquisition and tracking functions. Compared to previous...  
...provides means to optically close the point-ahead control loop. The technology required for high bandwidth array tracking was examined and shown to be consistent with current state of the art...  
...single detector design can lead to a significantly reduced system complexity and a lower system cost . (Official Gazette of the U.S. Patent and Trademark )

DESCRIPTORS: \*Charge coupled devices; \*Focal plane devices; \*Optical communication; \*Space communication; Bandwidth ; Beam splitters ; Cost reduction; Data acquisition; Lenses; Mirrors; Optical equipment; Patents ; Steering; Vibration effects

12/3,K/26 (Item 3 from file: 23)  
DIALOG(R)File 23:CSA Technology Research Database  
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0005118653 IP ACCESSION NO: 0220511; 0220511  
Adaptive virtual path allocation policy for broadband networks

Orda, Ariel; Pacifici, Giovanni; Pendarakis, Dimitrios E  
Technion - Israel Inst of Technology, Haifa, Isr

PROC IEEE INFOCOM, v 1, p 329-336, 1996  
PUBLICATION DATE: 1996

PUBLISHER: IEEE, PISCATAWAY, NJ, (USA)

CONFERENCE:  
The 1996 15th Annual Joint Conference of the IEEE Computer and Communications Societies, INFOCOM'96. Part 1 (of 3), San Francisco, CA, USA , 24-28 Mar. 1996

DOCUMENT TYPE: Conference Paper; Journal Article  
RECORD TYPE: Abstract

LANGUAGE: English

ISSN: 0743-166X

FILE SEGMENT: Computer & Information Systems Abstracts; Electronics & Communications Abstracts

ABSTRACT:

We propose a new policy for virtual path bandwidth allocation in broadband networks. Based on a threshold scheme, our policy handles the inherent tradeoff between bandwidth utilization and processing costs. In each virtual path controller the thresholds are chosen so as to keep bandwidth utilization high, while obtaining a low rate of processing requests. Two novel ideas are used in our threshold scheme: adaptivity, which results in a better prediction of future bandwidth requirements; and hysteresis, which prevents excessive processing of requests due to oscillations around thresholds. We tested the performance of our new bandwidth control scheme, and compared it with previously suggested schemes. The performance measures were the expected amount of unused bandwidth, the average signaling load and the blocking probability. Performance has been evaluated through numerical computations...

DESCRIPTORS: Resource allocation; Bandwidth ; Telecommunication links; Control systems; Performance; Probability; Calculations; Computer simulation; Markov processes

IDENTIFIERS: Virtual path; Bandwidth allocation; Threshold scheme; Bandwidth control; Time segmentation technique; Allocation policy ?

? show files;ds

File 348:EUROPEAN PATENTS 1978-2006/ 200611

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File 349:PCT FULLTEXT 1979-2006/UB=20060323,UT=20060316

(c) 2006 WIPO/Univentio

Set Items Description  
S1 217579 AUCTION? OR NEGOTIAT? OR BARGAIN? OR TRADE? OR TRADING OR -  
BIDDER? ? OR MARKETPLACE OR MARKET()PLACE OR (E OR ELECTRONIC  
OR DYNAMIC OR DIGITAL OR VIRTUAL)() (MARKET? ? OR MARKETPLACE)  
OR EMARKET?  
S2 1687 (CALCULAT? OR COMPUTE OR COMPUTES OR COMPUTING OR COMPUTED  
OR DETERMIN? OR ESTIMAT? OR FORMULA? OR ALGORITHM?)(5N)(COST?  
? OR PRICE? ? OR PRICING)(3N)(RESOURCE? ? OR COMMODIT? OR GOO-  
DS OR SERVICE? ?)  
S3 1855 PROGRESSIVE()SECOND()PRICE OR PSP  
S4 15824 (DIVISIBLE OR DIVID? OR SPLIT? OR PARSE? OR PARSING OR SHA-  
RED OR SHARING OR SEGMENT?)(3N)(RESOURCE? ? OR SERVICE? ? OR -  
COMMODITY OR COMMODITIES OR BANDWIDTH? ? OR OIL)  
S5 972 (SECOND OR NEW OR NEXT OR SUBSEQUENT OR ANOTHER OR FOLLOWI-  
NG)() (BID OR BIDDING OR BIDS OR OFFER OR OFFERS OR OFFERING)  
S6 29311 (S1 OR BARTER? OR EXCHANGE OR EXCHANGING) AND (BANDWIDTH OR  
BAND()WIDTH)  
S7 17255 S6 AND (PRICE OR PRICING OR COST?)  
S8 2952 (S3 OR S4 OR S5) AND S7  
S9 258 S6(30N)(PRICE OR PRICING OR COST?)(30N)(S3 OR S4 OR S5)  
~~S10 60 S9 NOT PY>1999~~  
~~S11 18 S10 AND IC=G06F~~ *all*  
? t11/3,k/all

11/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2006 European Patent Office. All rts. reserv.

01082299

System and method for automated trading  
System und Verfahren für automatisierten Handel  
Systeme et procede pour l'echange commercial

PATENT ASSIGNEE:

Hewlett-Packard Company, (206030), 3000 Hanover Street, Palo Alto,  
California 94304, (US), (Applicant designated States: all)

INVENTOR:

Preist, Christoper, 42 St.Andrews Roads, Montpelier, Bristol BS6 5EH,  
(GB)

Van Tol, Maarten, Nieuwe Schoolstraat 2, 2613 SH Delft, (NL)

LEGAL REPRESENTATIVE:

Lawman, Matthew John Mitchell et al (84551), Hewlett-Packard Limited, IP  
Section, Building 2, Filton Road, Stoke Gifford, Bristol BS12 6QZ, (GB)

PATENT (CC, No, Kind, Date): EP 952536 A1 991027 (Basic)

APPLICATION (CC, No, Date): EP 98303047 980421;

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06F-017/60

ABSTRACT WORD COUNT: 128

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	word Count
----------------	----------	--------	------------

CLAIMS A	(English)	9943	842
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SPEC A	(English)	9943	4536
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Total word count - document A	5378
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Total word count - document B	0
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Total word count - documents A + B	5378
------------------------------------	------

INTERNATIONAL PATENT CLASS (V7): G06F-017/60

...SPECIFICATION an auction, there will be no transactions, as it is  
obviously good business for a negotiation process to initially bid  
lower or offer higher than it would expect the actual auction...

...bids and or offers, if necessary, for the next round. Then, in step 245, the negotiation processes submit new bids and/or offers. Alternatively, any negotiation process may decide not to submit a new offer. In this case, the mediation process 110 determines that the negotiation process has decided to stick with the bid or offer it made in the previous round. Thus, it is not possible, in this example, to withdraw a bid from an auction once it has been made. Also, it is possible to 'improve' on a bid or...price; which would, in effect, be a bid withdrawal. This is another restriction of the auction, albeit again a non-essential restriction, which would be known to all participants.

The mediation process 110 receives any new bids and offers in step 220. This iterative process continues until a round is reached where the mediation process 110 does not receive any 'new' bids or offers. At this point, the auction is closed, and the mediation process 110 signals the start of a new auction. Alternatively, before ending the auction completely, the mediation process 110 may publish an 'auction about to close' warning to participants, in order to illicit any final bids or offers, or simply to inform the negotiation processes of the state of play.

The operation of the two basic negotiation processes, a...

11/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2006 European Patent Office. All rts. reserv.

00793783

METHOD OF TRANSMITTING OF DATA  
VERFAHREN ZUR UBERTRAGUNG VON DATEN  
METHODE POUR TRANSMETTRE DE DONNEES  
PATENT ASSIGNEE:

THE BOARD OF REGENTS OF THE UNIVERSITY OF WASHINGTON, (482943), 4225  
Roosevelt way N.E., Suite 301, Seattle, WA 98105, (US), (Proprietor  
designated states: all)

INVENTOR:

THOMAS, Alexander, 1900 Northwest Evergreen Parkway, 53, Hillsboro,  
Oregon 97124, (US)  
YONGMIN, Kim, 2828 Northeast 203rd Street, Seattle, WA 98155, (US)  
PARK, Huynwook - Uni. of Washington, M.S. JD-50, 1107 N.E. 45th St.,  
Suite 200, Seattle, WA 98105, (US)  
EO, Kil-Su, Uni. of Washington, M.S. JD-50, 1107 N.E. 45th St., Suite 200  
, Seattle, WA 98105, (US)  
JONG, Jing-Ming, 6347 Northeast Radford Drive, Apt. 199, Seattle, WA  
98115, (US)

LEGAL REPRESENTATIVE:

Spall, Christopher John et al (36171), BARKER BRETTELL 138 Hagley Road,  
Edgbaston Birmingham B16 9PW, (GB)

PATENT (CC, No, Kind, Date): EP 739513 A1 961030 (Basic)  
EP 739513 A1 970305  
EP 739513 B1 991027  
WO 9304429 930304

APPLICATION (CC, No, Date): EP 92918376 920812; WO 92US6737 920812

PRIORITY (CC, No, Date): US 744587 910813

DESIGNATED STATES: FR

INTERNATIONAL PATENT CLASS (V7): G06F-012/08 ; G06F-015/80 ; G06F-015/00

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	word Count
CLAIMS B	(English)	9943	495
CLAIMS B	(German)	9943	457
CLAIMS B	(French)	9943	610
SPEC B	(English)	9943	12356

Total word count - document A 0

Total word count - document B 13918

Total word count - documents A + B 13918

INTERNATIONAL PATENT CLASS (V7): G06F-012/08 ...

... G06F-015/80 ...

... G06F-015/00

...SPECIFICATION the shared memory is thus maintained in a relatively simple manner, and at very low cost in terms of hardware or software requirements.

Shared Memory and Interconnection Network  
In a parallel...

...sustained performance of the overall system is usually limited by the interconnection network and the bandwidth of the shared memory. In the present system, the shared memory and interconnection network architectures minimize data access conflicts. To increase memory bandwidth and to match the relatively slow memory to the processor speed (the processor cycle time...

11/3,K/3 (Item 3 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2006 European Patent Office. All rts. reserv.

00772603

METHOD AND APPARATUS FOR CREATING A SEARCHABLE DIGITAL VIDEO LIBRARY  
VERFAHREN UND VORRICHTUNG ZUM ERZEUGEN EINER SUCHBAREN DIGITALEN  
VIDEOBIBLIOTHEK  
PROCEDE ET DISPOSITIF DE CREATION DE BIBLIOTHEQUE VIDEONUMERIQUE  
CONSULTABLE

PATENT ASSIGNEE:

CARNEGIE MELLON UNIVERSITY, (958740), 5000 Forbes Avenue, Pittsburgh  
Pennsylvania 15213, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

MAULDIN, Michael, L., 208 Janice Drive, Penn Hills, PA 15235, (US)  
SMITH, Michael, A., Apartment IF, 714 Ivy Street, Pittsburgh, PA 15232,  
(US)  
STEVENS, Scott, M., 508 Troutwood Drive, Pittsburgh, PA 15237, (US)  
WACTLAR, Howard, D., 5618 Woodmont Street, Pittsburgh, PA 15217, (US)  
CHRISTEL, Michael, G., 556 Cloverdale Court, Wexford, PA 15090, (US)  
REDDY, D., Raj, 808 Devonshire Road, Pittsburgh, PA 15213, (US)  
KANADE, Takeo, 130 Penrose Drive, Pittsburgh, PA 15208, (US)

LEGAL REPRESENTATIVE:

Frankland, Nigel Howard (30731), FORRESTER & BOEHMERT  
Franz-Joseph-Strasse 38, 80801 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 786114 A1 970730 (Basic)  
EP 786114 B1 980805  
WO 9612239 960425

APPLICATION (CC, No, Date): EP 95937573 951012; WO 95US13573 951012

PRIORITY (CC, No, Date): US 324076 941014

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS (V7): G06F-017/30

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9832	1371
CLAIMS B	(German)	9832	1222
CLAIMS B	(French)	9832	1513
SPEC B	(English)	9832	9533

Total word count - document A 0

Total word count - document B 13639

Total word count - documents A + B 13639

INTERNATIONAL PATENT CLASS (V7): G06F-017/30

...SPECIFICATION is preferably minimized in both server and slave nodes. Second, communication services should preferably be cost effective, implying that link capability ( bandwidth ) be scalable to match the needs of a given node. Server nodes 107, for example, require the highest bandwidth because they are shared among a number of satellite nodes 110. Finally, the deployment of a custom communication network must be avoided. The most cost -effective, and timely, solution will build on communication services already available or in field-test...

11/3,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2006 European Patent Office. All rts. reserv.

00430604

System for matching of buyers and sellers with risk minimization.  
System zur Verbindung von Käufer und Verkäufer mit Risikominimierung.  
Systeme pour lier un acheteur avec un vendeur avec une minimisation de  
risque.

PATENT ASSIGNEE:

REUTERS LIMITED, (1237190), 85 Fleet Street, London WC4P 4HA, (GB),  
(applicant designated states: CH;DE;FR;GB;LI)

INVENTOR:

Scholldorf, Alfred H., 354 Broadway, Port Jefferson Station, New York  
11776, (US)

LEGAL REPRESENTATIVE:

Cline, Roger Ledlie et al (29375), EDWARD EVANS & CO. Chancery House  
53-64 Chancery Lane, London WC2A 1SD, (GB)

PATENT (CC, No, Kind, Date): EP 411748 A2 910206 (Basic)  
EP 411748 A3 911121

APPLICATION (CC, No, Date): EP 90305763 900525;

PRIORITY (CC, No, Date): US 360412 890602

DESIGNATED STATES: CH; DE; FR; GB; LI

INTERNATIONAL PATENT CLASS (V7): G06F-015/24

ABSTRACT WORD COUNT: 263

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	834
SPEC A	(English)	EPABF1	19829
Total word count - document A			20663
Total word count - document B			0
Total word count - documents A + B			20663

INTERNATIONAL PATENT CLASS (V7): G06F-015/24

...SPECIFICATION involving the transaction originator and involving one or more counterparties or affected parties in that trade or transaction. If the market is an auction market, then it preferably has a price depth of one so that this determines how many prices the central system 20 can maintain with only one price being maintained in an auction market. When a new bid goes in which betters the existing bid in an auction market, the existing bid is actually removed and effectively cancelled in the book. By way of example, an auction market is represented by FIGS. 15 and 16. Preferably, after all of the directed messages...

11/3,K/5 (Item 5 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2006 European Patent Office. All rts. reserv.

00430602

Distributed system and method for matching of buyers and sellers.  
Verteiltes System und Verfahren zum Herstellen von Geschäftsbeziehungen  
zwischen Käufern und Verkäufern.  
Systeme distribue et methode pour etablir une correspondance entre  
acheteurs et vendeurs.

PATENT ASSIGNEE:

REUTERS LIMITED, (1237190), 85 Fleet Street, London WC4P 4HA, (GB),  
(applicant designated states: CH;DE;FR;GB;LI)

INVENTOR:

Silverman, David L., 51 Dover Hill Drive, Nesconset, New York 11767, (US)  
Keller, Norman, 119 Chesnut Street, Mt. Sinai, New York 11766, (US)  
Scholldorf, Alfred H., 354 Broadway, Port Jefferson Station, New York  
11776, (US)

LEGAL REPRESENTATIVE:

Waldren, Robin Michael et al (55602), MARKS & CLERK, 57-60 Lincoln's Inn  
Fields, London WC2A 3LS, (GB)



Ginger R. DeMille

PATENT (CC, No, Kind, Date): EP 407026 A2 910109 (Basic)  
EP 407026 A3 911016  
EP 407026 B1 951122

APPLICATION (CC, No, Date): EP 90305753 900525;

PRIORITY (CC, No, Date): US 357036 890525; US 357484 890525

DESIGNATED STATES: CH; DE; FR; GB; LI

INTERNATIONAL PATENT CLASS (V7): G06F-017/60

ABSTRACT WORD COUNT: 419

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	EPABF1	945
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CLAIMS B	(English)	EPAB95	811
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CLAIMS B	(German)	EPAB95	684
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CLAIMS B	(French)	EPAB95	1013
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SPEC A	(English)	EPABF1	9215
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SPEC B	(English)	EPAB95	9192
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Total word count - document A	10161
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Total word count - document B	11700
-------------------------------	-------

Total word count - documents A + B	21861
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INTERNATIONAL PATENT CLASS (V7): G06F-017/60

...SPECIFICATION involving the transaction originator and involving one or more counterparties or affected parties in that trade or transaction. If the market is an auction market, then it preferably has a price depth of one so that this determines how many prices the central system 20 can maintain with only one price being maintained in an auction market. When a new bid goes in which betters the existing bid in an auction market, the existing bid is actually removed and effectively cancelled in the book. By way of example, an auction market is represented by FIGS. 15 and 16. Preferably, after all of the directed messages...

...SPECIFICATION involving the transaction originator and involving one or more counterparties or affected parties in that trade or transaction. If the market is an auction market, then it preferably has a price depth of one so that this determines how many prices the central system 20 can maintain with only one price being maintained in an auction market. When a new bid goes in which betters the existing bid in an auction market, the existing bid is actually removed and effectively cancelled in the book. By way of example, an auction market is represented by FIGS. 15 and 16. Preferably, after all of the directed messages...

11/3,k/6 (Item 6 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00401570

Anonymous matching system

Anonymes Geschäftsbeziehungssystem

Systeme d'appariement anonyme

PATENT ASSIGNEE:

REUTERS LIMITED, (1237191), 85 Fleet Street, London, EC4P 4HA, (GB),

(applicant designated states: CH;DE;FR;GB;LI)

INVENTOR:

Silverman, David L., 51 Dover Hill Drive, Nesconset, New York 11767, (US)

Keller, Norman, 119 Chestnut Street, Mt. Sinai, New York 11766, (US)

LEGAL REPRESENTATIVE:

Waldren, Robin Michael et al (55602), MARKS & CLERK, 57-60 Lincoln's Inn

Fields, London WC2A 3LS, (GB)

PATENT (CC, No, Kind, Date): EP 399850 A2 901128 (Basic)

EP 399850 A3 910911

EP 399850 B1 951213

APPLICATION (CC, No, Date): EP 90305762 900525;

PRIORITY (CC, No, Date): US 357478 890526

DESIGNATED STATES: CH; DE; FR; GB; LI

INTERNATIONAL PATENT CLASS (V7): G06F-017/60

ABSTRACT WORD COUNT: 243

LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	559
SPEC A	(English)	EPABF1	13131
Total word count - document A			13690
Total word count - document B			0
Total word count - documents A + B			13690

INTERNATIONAL PATENT CLASS (V7): G06F-017/60

...SPECIFICATION involving the transaction originator and involving one or more counterparties or affected parties in that trade or transaction. If the market is an auction market, then it preferably has a price depth of one so that this determines how many prices the central system 20 can maintain with only one price being maintained in an auction market. When a new bid goes in which betters the existing bid in an auction market, the existing bid is actually removed and effectively cancelled in the book. By way of example, an auction market is represented by FIGS. 15 and 16. Preferably, after all of the directed messages...

11/3,K/7 (Item 7 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
 (c) 2006 European Patent Office. All rts. reserv.

00401172

Optimized interconnect systems  
 Optimierte Verbindungssysteme  
 Systemes d'interconnexion optimises

PATENT ASSIGNEE:

STRATUS COMPUTER, INC., (508911), 55 Fairbanks Boulevard, Marlboro  
 Massachusetts 01752, (US), (applicant designated states:  
 AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

Baty, Kurt, F., 26 Hill Street, Medway, Massachusetts 02053, (US)  
 Horvath, Charles J., Jr., 34 Claremont Park, Boston, Massachusetts 02118,  
 (US)  
 Clemson, Richard C., 202 Elm Street, Marlboro Massachusetts 01752, (US)  
 Bleiweiss, Scott J., 230 Cowell Road, Wrentham, Massachusetts 02093, (US)  
 Wolff, Kenneth T., 221 Old Littleton Road, Harvard, Massachusetts 01451,  
 (US)

LEGAL REPRESENTATIVE:

Greenwood, John David et al (56695), Graham Watt & Co. Riverhead,  
 Sevenoaks Kent TN13 2BN, (GB)

PATENT (CC, No, Kind, Date): EP 398678 A2 901122 (Basic)  
 EP 398678 A3 920902  
 EP 398678 B1 970709

APPLICATION (CC, No, Date): EP 90305265 900516;

PRIORITY (CC, No, Date): US 354139 890519

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS (V7): G06F-015/16

ABSTRACT WORD COUNT: 139

LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	575
CLAIMS B	(English)	EPAB97	629
CLAIMS B	(German)	EPAB97	636
CLAIMS B	(French)	EPAB97	670
SPEC A	(English)	EPABF1	3865
SPEC B	(English)	EPAB97	3948
Total word count - document A			4440
Total word count - document B			5883
Total word count - documents A + B			10323

INTERNATIONAL PATENT CLASS (V7): G06F-015/16

...SPECIFICATION have a number of drawbacks. The multiport and crossbar networks, although offering a high transmission bandwidth, become

unduly complex and costly as the number of nodes increase. The common-bus and dual-bus systems, while less hardware intensive, form bottlenecks at their shared resources, e.g., the main system bus and memory and, therefore, have relatively narrow transmission bandwidths...

...SPECIFICATION have a number of drawbacks. The multiport and crossbar networks, although offering a high transmission bandwidth, become unduly complex and costly as the number of nodes increase. The common-bus and dual-bus systems, while less hardware intensive, form bottlenecks at their shared resources, e.g., the main system bus and memory and, therefore, have relatively narrow transmission bandwidths...

11/3,K/8 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2006 WIPO/Univentio. All rts. reserv.

00530646

GLOBAL NETWORK COMPUTERS

ORDINATEURS DE RESEAU A COUVERTURE MONDIALE

Patent Applicant/Assignee:

FRAMPTON Ellis E III,

Inventor(s):

FRAMPTON Ellis E III,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9961998 A2 19991202

Application: WO 99US11206 19990521 (PCT/WO US9911206)

Priority Application: US 9886516 19980522; US 9886588 19980522; US 9885755 19980527; US 9886948 19980527; US 9887587 19980601; US 9888459 19980608; US 98213875 19981217; WO 98US27058 19981217; US 99134552 19990517

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE  
GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK  
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN  
YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE  
CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN  
GW ML MR NE SN TD TG

Publication Language: English

Fulltext word Count: 25882

Main International Patent Class (v7): G06F-015/80

Fulltext Availability:

Detailed Description

Detailed Description

... Internet (or present or future equivalents or successors like the MetaInternet) can be at no cost to PC users, since in exchange for such Internet access the PC users can generally make their PC, when idle, available...

...user customers can be over such factors as the convenience and quality of the access service provided and of shared processing provided at no addition cost to standard PC users, or on such factors as the level of shared processing in...

11/3,K/9 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2006 WIPO/Univentio. All rts. reserv.

00504436

\*\*Image available\*\*

A WIRELESS UNIVERSAL BUILDING INFORMATION INFRASTRUCTURE

INFRASTRUCTURE UNIVERSELLE ET SANS FIL D'INFORMATION POUR IMMEUBLE

Patent Applicant/Assignee:

KONINKLIJKE PHILIPS ELECTRONICS N V,

PHILIPS AB,

Inventor(s):

MUKHERJEE Satyendranath,  
BRYAN David,  
HULYALKAR Samir,  
GHOSH Monisha,  
SATYANARAYANA Srinagesh,  
MELNIK George,  
LETAVIC Theodore,

DASGUPTA Aninda,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 9935788 A2 19990715  
Application: WO 98IB2037 19981214 (PCT/WO IB9802037)  
Priority Application: US 972559 19971231  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)  
JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
Publication Language: English  
Fulltext word Count: 3176

...International Patent Class (v7): G06F-013/12  
Fulltext Availability:  
Detailed Description

Detailed Description  
... one to be controlled by another without the user having to make  
explicit connections. Data exchange between computer and home  
appliances for example is possible with this scheme. Moreover, by  
sharing the bandwidth of the RF spectrum, the overall system will be  
cost effective. Having the communication link will allow the use of the  
control panel of one device for controlling another device thereby  
reducing cost and/or increasing flexibility.

By way of example, FIG. 3 illustrates telephones 120, computers 130...

11/3,K/10 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2006 WIPO/Univentio. All rts. reserv.

00501620 \*\*Image available\*\*  
FIREWALL SECURITY PROTECTION OF PARALLEL PROCESSING IN A GLOBAL COMPUTER  
NETWORKING ENVIRONMENT  
PROTECTION DE SECURITE PAR FILTRAGE D'UN TRAITEMENT PARALLELE DANS UN  
RESEAU INFORMATIQUE GLOBAL

Patent Applicant/Assignee:  
ELLIS Frampton E III,  
Inventor(s):  
ELLIS Frampton E III,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 9932972 A1 19990701  
Application: WO 98US27058 19981217 (PCT/WO US9827058)  
Priority Application: US 9768366 19971219  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)  
AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH  
GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN  
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU  
ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE  
DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR  
NE SN TD TG

Publication Language: English  
Fulltext word Count: 16251

Main International Patent Class (v7): G06F-011/00  
International Patent Class (v7): G06F-012/14 ...

... G06F-013/00  
Fulltext Availability:  
Detailed Description

Detailed Description

... Internet (or present or future equivalents or successors like the MetaInternet) can be at no cost to PC users, since in exchange for such Internet access the PC users can generally make their PC, when idle, available...

...user

customers can be over such factors as the convenience and quality of the access service provided and of shared processing provided at no addition cost to standard PC users, or on such factors as the level of shared processing in...

11/3,K/11 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2006 WIPO/Univentio. All rts. reserv.

00485842 \*\*Image available\*\*

RESOURCE MANAGEMENT SYSTEM  
SYSTEME DE GESTION DE RESSOURCES

Patent Applicant/Assignee:

BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY,  
PUROHIT Bharat,  
SHEPHERDSON John William,  
JUDGE Donald,  
ODGERS Brian Robert,

Inventor(s):

PUROHIT Bharat,  
SHEPHERDSON John William,  
JUDGE Donald,  
ODGERS Brian Robert,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9917194 A1 19990408  
Application: WO 98GB2944 19981001 (PCT/WO GB9802944)  
Priority Application: EP 97307745 19971001

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM  
HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX  
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH  
GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES  
FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN  
TD TG

Publication Language: English

Fulltext Word Count: 13722

Main International Patent Class (v7): G06F-009/46

International Patent Class (v7): 1G06F-017/60

Fulltext Availability:

Detailed Description

Detailed Description

... 325 to arrive

or for some pre-determined time-out period to expire. Then the cost factor (which takes into account the bid price, difference in bid and response quantity, quality etc. for each work category included in the...

...bid request) is calculated for each bid received, and the bids are ranked by ascending cost.

The lowest cost bid is used as the basis for the next round of negotiation (see below for a discussion of 'cost' and 'cost factors'). If this bid accounts for all the offered work, then this branch of the negotiation is terminated. Otherwise the CAA 320 narrowcasts a new bid request message to cover the difference between the quantity (per unit time) of each work type covered by the bid response with the lowest cost factor, and the requested rate for each work category contained in the original, multicast, bid...

11/3,K/12 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT  
(c) 2006 WIPO/Univentio. All rts. reserv.

00479463 \*\*Image available\*\*

EXCHANGE METHOD AND APPARATUS  
PROCEDE ET APPAREIL D'ECHANGE

Patent Applicant/Assignee:

GRENEX CORPORATION,  
WHITE Newton,

Inventor(s):

WHITE Newton,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9910815 A1 19990304

Application: WO 98US17472 19980821 (PCT/WO US9817472)

Priority Application: US 9756815 19970822; US 9761433 19971008; US  
9766526 19971125

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM  
HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX  
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US VZ VN YU ZW GH  
GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES  
FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN  
TD TG

Publication Language: English

Fulltext Word Count: 32307

Main International Patent Class (v7): G06F-015/21

International Patent Class (v7): G06F-015/30 ...

... G06F-017/60 ...

... G06F-015/20 ...

... G06F-015/24

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... the offer matching system might determine that the first offer can be  
executed against the second offer for 100

2

shares at a price of \$1.00 per share. In such a case, the first  
participant would become obligated...

...and the second participant There are many different methods that might  
be used to consummate trades once an offer matching system determines  
that particular offers are to be executed. In the...

Claim

... with the second offer, the second identifier not associated with any  
offer other than the second offer . 134. The method of claim 131  
wherein a predetermined relationship exists between the first data...

...predetermined relationship is selected

from the group consisting of:

the first data item identifies the second offer ,

the first data item identifies a transaction report for a trade in  
which the first offer was

executed against the second offer at least in part,

the first data item specifies a price at which the first offer was  
executed against the

second offer at least in part, and

the first data item specifies a quantity for which the first offer was  
executed against the second offer at least in part.

135. The method of claim 131 with the following additional steps...offer;

(h) after step (f), executing the first offer at least in part against

the second offer . 143. A method for executing offers in an offer

matching system that includes the following...

...a) storing in the offer matching system a description of a buy offer for  
a traded item;

112  
(b) storing in the offer matching system a description of a sell offer for the traded item;  
(c) detecting that the buy offer may be executed in whole or in part against the sell offer;  
(d) determining a minimum price that is the lowest price at which the sell offer may be executed against the buy offer;  
(e) determining a...  
...item. 145. The method of claim 143 wherein the first price is a weighted average price for a plurality of trades previously executed by the offer matching system.  
113  
The method...first price and is for a short sale;  
(b) receiving a description of a second offer to buy the traded item;  
(c) calculating at least once a second price that is...  
...third price as most recently calculated;  
(e) attempting to execute the first offer with the second offer in a manner that is substantially the same as the manner in which the offer...  
...to buy if the first offer had been for a long sale with a limit price equal to the third price as most recently calculated, thereby assuring that the first offer will not be executed at a price that is below either the first price or the second price as most recently calculated; and  
(f) executing the first offer against the second offer at least in part at a price greater than or equal to the third price as most recently calculated.  
149. The method of claim 148 wherein step (c) includes:  
114  
(c-1) selecting a plurality of prices for previously executed trades of the traded item; (c-2) selecting from the plurality of prices a fifth price equal to a price at which a last trade of the traded item occurred, wherein the plurality of prices...

11/3,K/13 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2006 WIPO/Univentio. All rts. reserv.

00441599 \*\*Image available\*\*  
METHOD AND APPARATUS FOR ZERO LATENCY BUS TRANSACTIONS  
PROCEDE ET SYSTEME DE TRANSACTIONS METTANT EN OEUVRE UN BUS A TEMPS  
D'ATTENTE NUL  
Patent Applicant/Assignee:  
INTEL CORPORATION,  
Inventor(s):  
JAYAKUMAR Muthurajan,  
HUANG Sunny C,  
MACWILLIAMS Peter D,  
WU William S,  
PAWLOWSKI Stephen,  
PRASAD Bindu A,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 9832063 A2 19980723  
Application: WO 97US22147 19971203 (PCT/WO US9722147)  
Priority Application: US 96774512 19961230; US 97954442 19971020  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)  
AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DE DK DK EE EE ES  
FI FI GB GE GH HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG  
MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SK SL TJ TM TR TT UA UG UZ  
VN YU ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE  
DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE  
SN TD TG  
Publication Language: English  
Fulltext word Count: 12910

Main International Patent Class (v7): G06F-013/42

Fulltext Availability:

Detailed Description

Detailed Description

... system. An increase in the number of pins often equates to an increase in the cost of the package. Thus, the cost of integrated circuit components in the system increases. On the other hand, the increase in bandwidth due to permitting split transactions is significant due to the ability to reorder long latency transactions behind short latency...

...later. It is desirable to support split bus transactions without incurring all of the increased cost of modifying integrated circuit components and the increased number of pins required. Another approach to...

11/3,K/14 (Item 7 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2006 WIPO/Univentio. All rts. reserv.

00435902 \*\*Image available\*\*

GLOBAL NETWORK COMPUTERS

ORDINATEURS DE RESEAU A COUVERTURE MONDIALE

Patent Applicant/Assignee:

ELLIS Frampton E III,

Inventor(s):

ELLIS Frampton E III,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9826366 A2 19980618

Application: WO 97US21812 19971128 (PCT/WO US9721812)

Priority Application: US 9631855 19961129; US 9632207 19961202; US

9633871 19961220

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DE DK EE ES FI GB GE GH  
HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ  
PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US US US US US US UZ VN  
YU ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK  
ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN  
TD TG

Publication Language: English

Fulltext word Count: 15543

Main International Patent Class (v7): G06F-011/30

Fulltext Availability:

Detailed Description

Detailed Description

... Internet (or present or future equivalents or successors like the MetalInternet) would be at no cost to PC users, since in exchange for such Internet access the PC users would generally make their PC, when idle, available...user customers would be over such factors as the convenience and quality of the access lservice provided and of shared processing provided at no addition cost to standard PC users, or on such factors as the level of shared processing in...

11/3,K/15 (Item 8 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2006 WIPO/Univentio. All rts. reserv.

00386807 \*\*Image available\*\*

COMMUNICATION SYSTEM WITH MULTICARRIER TELEPHONY TRANSPORT

SYSTEME DE COMMUNICATION AVEC TRANSMISSION TELEPHONIQUE PAR PORTEUSES MULTIPLES

Patent Applicant/Assignee:

ADC TELECOMMUNICATIONS INC,



DAPPER Mark J,  
GEILE Michael J,  
HILL Terrance J,  
ROBERTS Harold A,  
ANDERSON Brian D,  
BREDE Jeffrey,  
WADMAN Mark S,  
KIRSCHT Robert J,  
HERRMANN James J,  
FORT Michael J,  
BUSKA Steven P,  
SOLUM Jeff,  
ENFIELD Debra Lea,  
BERG Darrell,  
SMIGELSKI Thomas,  
TUCKER Thomas C,  
HALL Joe,  
LOGAJAN John M,  
BOUALOUANG Somway,  
LOU Heng,  
ELPERS Mark D,  
DOWNS Matt,  
FERRIS Tammy,  
OPOCZYNSKI Adam,  
RUSSELL David S,  
Inventor(s):  
DAPPER Mark J,  
GEILE Michael J,  
HILL Terrance J,  
ROBERTS Harold A,  
ANDERSON Brian D,  
BREDE Jeffrey,  
WADMAN Mark S,  
KIRSCHT Robert J,  
HERRMANN James J,  
FORT Michael J,  
BUSKA Steven P,  
SOLUM Jeff,  
ENFIELD Debra Lea,  
BERG Darrell,  
SMIGELSKI Thomas,  
TUCKER Thomas C,  
HALL Joe,  
LOGAJAN John M,  
BOUALOUANG Somway,  
LOU Heng,  
ELPERS Mark D,  
DOWNS Matt,  
FERRIS Tammy,  
OPOCZYNSKI Adam,  
RUSSELL David S,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 9727550 A2 19970731  
Application: WO 97US1444 19970124 (PCT/WO US9701444)  
Priority Application: US 9610497 19960124; US 9610506 19960124; US  
96673002 19960628  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)  
AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT  
RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN KE LS MW SD SZ UG AM AZ  
BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
BF BJ CF CG CI CM GA GN ML MR NE SN TD TG  
Publication Language: English  
Fulltext word Count: 85964  
Main International Patent Class (v7): G06F-017/14  
Fulltext Availability:  
Detailed Description

... architectures, which may include hybrid optical fiber/coax architectures, none of these references describe a cost effective, flexible, communications system for telephony communications.

Several problems are inherent in such a communication system.

SUBSTITUTE SHEET (RULE 26)

One such problem is the need to optimize the bandwidth used for transporting data so that the bandwidth used does not exceed the allotted bandwidth. Bandwidth requirements are particularly critical in multi-point to point communication where multiple transmitters at remote units must be accommodated such that allotted bandwidth is not exceeded.

A second problem involves power consumption of the system. The communication system...

11/3,K/16 (Item 9 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00351843 \*\*Image available\*\*

CONSIGNMENT NODES

NoeUD DE CONSIGNATION DE MARCHANDISES

Patent Applicant/Assignee:

FLEANET INC,

Inventor(s):

WOOLSTON Thomas G,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9634356 A1 19961031

Application: WO 96US6205 19960426 (PCT/WO US9606205)

Priority Application: US 95427820 19950426; US 95554704 19951107

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CA RU AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 12812

Main International Patent Class (v7): G06F-017/60

International Patent Class (v7): G06F-09:45 ...

... G06F-09:445

Fulltext Availability:

Detailed Description

Detailed Description

... gets the first item to be auctioned 252 from the database of goods to be auctioned 254. The consignment node then calculates the opening bid by a predetermined formula such as ...50% of the reserve or general solicitation of an opening bid is posted to the auction participants 258. The consignment node auction mode then scans the participants for a higher bids 262. If a higher bid is found the new bid is posted 264. It is understood that the steps of checking for bids 260 determines...

...new higher bid 264 is repeated until no higher bids are received. After the typical auction closing of going once ... twice ..

three times the auction is closed 266. The consignment node auction program then compares the highest bid received with the good's reserve price 268 to determine whether to transact the sale. If the highest bid is greater than the reserve price the consignment node auction process posts sold! for xxx amount to the auction participants and...re-post the good or collectable the participant may specify a new reserve or offer price for the good or collectable. It is understood that the purchasing participant may elect to leave the good or collectable at the consignment node and post a new offer or reserve price and may identify that the good is on the market, e.g. may be bought and sold at any time, or that the good is awaiting an auction

date. Moreover, the participant may elect to have the good viewable on the market or "invisible" to the market while awaiting an auction date 422. It is understood that the participant may elect to leave the good at...

11/3,K/17 (Item 10 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2006 WIPO/Univentio. All rts. reserv.

00329728 \*\*Image available\*\*  
METHOD AND APPARATUS FOR CREATING A SEARCHABLE DIGITAL VIDEO LIBRARY AND A SYSTEM AND METHOD OF USING SUCH A LIBRARY  
PROCEDE ET DISPOSITIF DE CREATION DE BIBLIOTHEQUE VIDEONUMERIQUE CONSULTABLE, AVEC SON MODE D'EMPLOI DE LADITE BIBLIOTHEQUE

Patent Applicant/Assignee:  
CARNEGIE MELLON UNIVERSITY,

Inventor(s):  
MAULDIN Michael L,  
SMITH Michael A,  
STEVENS Scott M,  
WACTLAR Howard D,  
CHRISTEL Michael G,  
REDDY D Raj,  
KANADE Takeo,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9612239 A1 19960425  
Application: WO 95US13573 19951012 (PCT/WO US9513573)  
Priority Application: US 94324076 19941014

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CA JP KR MX SG AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 10755

Main International Patent Class (v7): G06F-017/30

Fulltext Availability:

Detailed Description

Detailed Description

... is preferably

minimized in both server and slave nodes. Second, communication services should preferably be cost effective, implying that link capability ( bandwidth ) be scalable to match the needs of a given node. Server nodes 107, for example, require the highest bandwidth because they are shared among a number of satellite nodes 110. Finally, the deployment of a custom communication network must be avoided. The most cost-effective, and timely, solution will build on communication services already available or in field-test...

11/3,K/18 (Item 11 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2006 WIPO/Univentio. All rts. reserv.

00230178 \*\*Image available\*\*  
IMAGING AND GRAPHICS PROCESSING SYSTEM  
SYSTEME D'IMAGERIE ET DE TRAITEMENT GRAPHIQUE

Patent Applicant/Assignee:

BOARD OF REGENTS OF THE UNIVERSITY OF WASHINGTON,

Inventor(s):  
THOMAS Alexander,  
YONGMIN Kim,  
PARK Hyunwook,  
EO Kil-Su,  
JONG Jing-Ming,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9304429 A2 19930304  
Application: WO 92US6737 19920812 (PCT/WO US9206737)

Priority Application: US 91587 19910813  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)  
JP KR AT BE CH DE DK ES FR GB GR IE IT LU MC NL SE  
Publication Language: English  
Fulltext Word Count: 15410  
Main International Patent Class (v7): G06F-012/02  
Fulltext Availability:  
Detailed Description

Detailed Description

... the shared memory is thus maintained in a relatively simple manner,  
and at very low cost in terms of hardware or software requirements.

Shared Memory and Interconnection Network  
In a parallel...

...sustained  
performance of the overall system is usually limited by the  
interconnection network and the bandwidth of the shared memory. In  
the present system, the shared memory and interconnection network  
architectures minimize data access  
conflicts. To increase memory bandwidth and to match the relatively  
slow  
memory to the processor speed (the processor cycle time...  
?

? show files;ds

File 15:ABI/Inform(R) 1971-2006/Mar 29  
 (c) 2006 ProQuest Info&Learning  
 File 16:Gale Group PROMT(R) 1990-2006/Mar 29  
 (c) 2006 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2006/Mar 28  
 (c)2006 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
 (c) 1999 The Gale Group  
 File 275:Gale Group Computer DB(TM) 1983-2006/Mar 28  
 (c) 2006 The Gale Group  
 File 621:Gale Group New Prod.Annou.(R) 1985-2006/Mar 28  
 (c) 2006 The Gale Group  
 File 9:Business & Industry(R) Jul/1994-2006/Mar 28  
 (c) 2006 The Gale Group  
 File 20:Dialog Global Reporter 1997-2006/Mar 29  
 (c) 2006 Dialog  
 File 476:Financial Times Fulltext 1982-2006/Mar 30  
 (c) 2006 Financial Times Ltd  
 File 610:Business Wire 1999-2006/Mar 29  
 (c) 2006 Business Wire.  
 File 613:PR Newswire 1999-2006/Mar 29  
 (c) 2006 PR Newswire Association Inc  
 File 24:CSA Life Sciences Abstracts 1966-2006/Feb  
 (c) 2006 CSA.  
 File 634:San Jose Mercury Jun 1985-2006/Mar 28  
 (c) 2006 San Jose Mercury News  
 File 636:Gale Group Newsletter DB(TM) 1987-2006/Mar 28  
 (c) 2006 The Gale Group  
 File 810:Business Wire 1986-1999/Feb 28  
 (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
 (c) 1999 PR Newswire Association Inc  
 File 13:BAMP 2006/Mar w3  
 (c) 2006 The Gale Group  
 File 75:TGG Management Contents(R) 86-2006/Mar w3  
 (c) 2006 The Gale Group  
 File 95:TEME-Technology & Management 1989-2006/Mar w4  
 (c) 2006 FIZ TECHNIK

Set	Items	Description
S1	19562798	AUCTION? OR NEGOTIAT? OR BARGAIN? OR TRADE? OR TRADING OR - BIDDER? ? OR MARKETPLACE OR MARKET()PLACE OR (E OR ELECTRONIC OR DYNAMIC OR DIGITAL OR VIRTUAL)()(MARKET? ? OR MARKETPLACE) OR EMARKET?
S2	68424	(CALCULAT? OR COMPUTE OR COMPUTES OR COMPUTING OR COMPUTED OR DETERMIN? OR ESTIMAT? OR FORMULA? OR ALGORITHM?)(5N)(COST? ? OR PRICE? ? OR PRICING)(3N)(RESOURCE? ? OR COMMODIT? OR GOO- DS OR SERVICE? ?)
S3	20061	PROGRESSIVE()SECOND()PRICE OR PSP
S4	358327	(DIVISIBLE OR DIVID? OR SPLIT? OR PARSE? OR PARSING OR SHA- RED OR SHARING OR SEGMENT?)(3N)(RESOURCE? ? OR SERVICE? ? OR - COMMODITY OR COMMODITIES OR BANDWIDTH? ? OR OIL)
S5	120680	(SECOND OR NEW OR NEXT OR SUBSEQUENT OR ANOTHER OR FOLLOWI- NG)()(BID OR BIDDING OR BIDS OR OFFER OR OFFERS OR OFFERING)
S6	343458	(S1 OR BARTER? OR EXCHANGE OR EXCHANGING) AND (BANDWIDTH OR BAND()WIDTH)
S7	245710	S6 AND (PRICE OR PRICING OR COST?)
S8	11826	(S3 OR S4 OR S5) AND S7
S9	2293	S6(30N)(PRICE OR PRICING OR COST?)(30N)(S3 OR S4 OR S5)
S10	950	S9 NOT PY>1999
S11	114989	S6(30N)(PRICE OR PRICING OR COST?)
S12	1378	S11(30N)(S3:S5)
S13	4	S3(30N)S11
S14	1302	S4(30N)S11
S15	74	S5(30N)S11
S16	77	S13 OR S15
S17	26	S16 NOT PY>2000
S18	17	RD (unique items)

? t18/3,k/all

18/3,K/1 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)  
(c) 2006 ProQuest Info&Learning. All rts. reserv.

01802249 04-53240

**Cisco rolls out convergence gear**

Duffy, Jim

Network World v16n14 PP: 13 Apr 5, 1999

ISSN: 0887-7661 JRNL CODE: NWW

WORD COUNT: 559

...TEXT: has also rolled out the multimedia conference manager for its MC3810 multiservice access unit. The new offering is intended to manage H.320 or H.323 video bandwidth and guarantee quality of service for video on a converged network. The multimedia conference manager costs \$6,495 and is available now.

Standards supported

For packetized voice, Cisco unveiled voice-over...

18/3,K/2 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00847199 94-96591

**Electronic trading, market structure and liquidity**

Massimb, Marcel N; Phelps, Bruce D

Financial Analysts Journal v50n1 PP: 39-50 Jan-Feb 1994

ISSN: 0015-198X JRNL CODE: FIA

WORD COUNT: 10714

...TEXT: a bid and wait a very short time for corroboration in the form of another trader's bid at the same level. If another bid is not forthcoming, the trader may cancel his bid and reenter it at a different price. As in an open-outcry pit, traders are constantly entering, then canceling, their market bids and offers. Unlike open outcry, however, the ...

18/3,K/3 (Item 3 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2006 ProQuest Info&Learning. All rts. reserv.

00769399 94-18791

**PacBell offers optimal solutions**

Bernier, Paula

Telephony v225n12 PP: 13-16+ Sep 20, 1993

ISSN: 0040-2656 JRNL CODE: TPH

WORD COUNT: 705

...ABSTRACT: and help the telco wrest some of the control interexchange carriers now have in the marketplace. The new offering, called Optimizer, will provide companies with a single point of coordination to access services from multiple carriers, which will lower networking costs and increase choices for customers. Pacific Bell created Optimizer with 2 goals in mind: keeping...

...TEXT: and help the telco wrest some of the control interexchange carriers now have in the marketplace.

The new offering, called Optimizer, will provide companies with a single point of coordination to access services from multiple carriers, which will lower networking costs and increase choices for customers, the telephone company said.

"There doesn't seem to be...

18/3,K/4 (Item 1 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2006 The Gale Group. All rts. reserv.

07847645 Supplier Number: 65486491 (USE FORMAT 7 FOR FULLTEXT)  
**NightFire stokes provision tools.(Nightfire Software's NightFire ASR and NightFire Voice)(Brief Article)**

Gonsalves, Chris

eWeek, p46

Sept 25, 2000

Language: English Record Type: Fulltext

Article Type: Brief Article

Document Type: Magazine/Journal; Trade

Word Count: 129

... trunks to build out their own backbone network and resell bandwidth to customers.

The second new offering, NightFire Voice, lets competitive local exchange carriers add voice services to their DSL access products.

Offering DSL and other access technologies, NightFire Voice provides a cost-effective way to add revenue-generating, value-added voice services to basic access service.

Both...

18/3,K/5 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2006 The Gale Group. All rts. reserv.

06254535 Supplier Number: 54299289 (USE FORMAT 7 FOR FULLTEXT)

**CISCO ROLLS OUT CONVERGENCE GEAR.(Product Announcement)**

DUFFY, JIM

Network World, p13(1)

April 5, 1999

Language: English Record Type: Fulltext

Article Type: Product Announcement

Document Type: Magazine/Journal; Trade

Word Count: 560

... has also rolled out the multimedia conference manager for its MC3810 multiservice access unit. The new offering is intended to manage H.320 or H.323 video bandwidth and guarantee quality of service for video on a converged network. The multimedia conference manager costs \$6,495 and is available now.

Standards supported

For packetized voice, Cisco unveiled voice-over...

18/3,K/6 (Item 3 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2006 The Gale Group. All rts. reserv.

06227988 Supplier Number: 54247342 (USE FORMAT 7 FOR FULLTEXT)

**SMC Makes Workgroup Expansion Easier with New TigerStack II 10/100**

**Stackable Hub.**

Business Wire, p0236

March 30, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 842

... hub, SMC is making it easy and profitable for customers to get additional performance and bandwidth when and where they need it.

Available in both 12- and 24-port models, the TigerStack II 10/100 is key to SMC's strategy of delivering cost-effective, flexible solutions to customers that need the performance of newer technology but at an affordable price. It also rounds out SMC's product-line with yet another offering to enhance the performance of small-to-medium size workgroups and businesses.

The TigerStack II...

18/3,K/7 (Item 4 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2006 The Gale Group. All rts. reserv.

06079373 Supplier Number: 53582497 (USE FORMAT 7 FOR FULLTEXT)  
First of two FTS 2000 contracts goes to Sprint.(Government Activity)  
JACKSON, WILLIAM  
Government Computer News, v18, n1, p6(1)  
Jan 11, 1999  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Tabloid; Trade  
Word Count: 836

... services has expanded fourfold."  
How much of the business Sprint will get depends on a second bidding round now under way. The Federal Technology Service is evaluating new price proposals from the original bidders Dennis J. Fischer, commissioner of GSA's FTS, said he expects a decision by mid...

18/3,K/8 (Item 5 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2006 The Gale Group. All rts. reserv.

05047527 Supplier Number: 47409819 (USE FORMAT 7 FOR FULLTEXT)  
BBN Purchase a Good Deal for GTE: But Price Won't Set Industry Standards for Other Acquisitions  
Internet Week, v3, n21, pN/A  
May 26, 1997  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1277

... dealing another blow to a young industry groping for standards.  
BBN's stock continues to trade around \$29 per share, the price GTE offered for the company on May 6.  
Generally, when a stock price remains high, investors believe there could be another bid on the way. AT&T was rumored in late April to be talking with BBN...

18/3,K/9 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2006 The Gale Group. All rts. reserv.

05130403 SUPPLIER NUMBER: 10540632 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
SONET: DSC SONET digital loop carrier 1st to demo OC-3 rates. (DSC Communications Corp.'s Litespan-2000 is the first SONET digital loop carrier system working at OC-3 rates of 155M-bps) (Product Announcement)  
EDGE, on & about AT&T, v6, n139, p13(1)  
March 25, 1991  
DOCUMENT TYPE: Product Announcement LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 717 LINE COUNT: 00060

... networks to individual homes and businesses.  
The advanced SONET OC-3 formatter included in this new offering will accommodate many synchronous and asynchronous data rate interfaces, making it an extremely flexible and cost effective solution for many telephone company applications.  
The use of SONET provides far easier access to channel information than current equipment using asynchronous designs. It also provides bandwidth for embedded operation channels for high-performance maintenance and test functions, remote provisioning, and improved...

18/3,K/10 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2006 Dialog. All rts. reserv.

14069440 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
INTELSAT Launches New Broadband VSAT Service in Asia  
PR NEWSWIRE  
December 04, 2000  
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 464



... the Atlantic Ocean Region, INTELSAT is now addressing the high growth Asian market with its new offering . Broadband VSAT is an advanced bandwidth -on-demand system, allowing corporate network and Internet service providers to offer cost -effective and rapidly deployable high-speed communications solutions to their multinational customers.  
INTELSAT's Broadband...

18/3,K/11 (Item 2 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2006 Dialog. All rts. reserv.

13050829 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
3Com Announces Gigabit Ethernet Over Copper Network Interface Cards  
BUSINESS WIRE  
September 28, 2000  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 798

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... channels eliminate the PCI bus as a bottleneck and efficiently utilize available sever I/O bandwidth .  
"This new offering not only provides high performance and an exceptional server feature set with 3Com's DynamicAccess(R) technology, but our aggressive price point should also help to accelerate the transition from 10/100 to Gigabit Ethernet in...

18/3,K/12 (Item 3 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2006 Dialog. All rts. reserv.

10714677 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
No immediate benefit for Internet users  
Rizwan Razi  
NATION (PAKISTAN)  
April 25, 2000  
JOURNAL CODE: WTPN LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 465

...up rather, they added. They said that all the ISPs would try to get maximum bandwidth to exploit this new offer from the government and subsequently their input cost would be multiplied and the general customers would able to get no immediate benefit. They...

18/3,K/13 (Item 4 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2006 Dialog. All rts. reserv.

05835821 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
IHN Demonstrates Real-Time Bandwidth Auction Software  
PR NEWswire  
June 21, 1999  
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 415

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... while consumption is real-time. Merkato implements protocols and algorithms specifically designed for real-time bandwidth markets. The Progressive Second Price Auction and the Hold Option are new (patent pending) spot and derivative market mechanisms for bandwidth . Based on 4 years of research at Columbia University's Center for Telecommunications Research, these...

18/3,K/14 (Item 5 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2006 Dialog. All rts. reserv.

*Red Date*

02164725 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Wellington network takes on Telecom**

Malcolm McDonald

INFOTECH WEEKLY, p1

July 06, 1998

JOURNAL CODE: WIWY LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 518

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... and wish to link their voice and data networks at different locations.

Capital Networks' other new offering is the Wellington Internet exchange, or Wix, a traffic routing initiative for Internet data running on its network.

Internet traffic destined across town often travels to the Waikato gateway and back, incurring substantial national costs for users and customers of Internet companies.

Capital Networks' Wix service will intercept traffic bound...

18/3,K/15 (Item 1 from file: 610)

DIALOG(R)File 610:Business Wire

(c) 2006 Business Wire. All rts. reserv.

00373549 200009282728B9918 (USE FORMAT 7 FOR FULLTEXT)

**3Com Announces Gigabit Ethernet Over Copper Network Interface Cards-Gigabit Ethernet Over Copper Market Goes Mainstream; 3Com Launches Server Network Interface Cards That Cost-Effectively and Reliably Increase Network Performance**

Business Wire

Thursday, September 28, 2000 09:19 EDT

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 781

...channels eliminate the PCI bus as a bottleneck and efficiently utilize available server I/O bandwidth.

"This new offering not only provides high performance and an exceptional

server feature set with 3Com's DynamicAccess(R) technology, but our aggressive

price point should also help to accelerate the transition from 10/100 to Gigabit Ethernet in...

18/3,K/16 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2006 The Gale Group. All rts. reserv.

01450347 Supplier Number: 41953231 (USE FORMAT 7 FOR FULLTEXT)

**SONET: DSC SONET DIGITAL LOOP CARRIER 1st TO DEMO OC-3 RATES**

EDGE, on & about AT&T, v6, n139, pN/A

March 25, 1991

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 649

... networks to individual homes and businesses.

The advanced SONET OC-3 formatter included in this new offering will accommodate many synchronous and asynchronous data rate interfaces, making it an extremely flexible and cost effective solution for many telephone company applications.

The use of SONET provides far easier access to channel information than current equipment using asynchronous designs. It also provides bandwidth for embedded operation channels for high-performance maintenance and test functions, remote provisioning, and improved...

18/3,K/17 (Item 1 from file: 810)

Ginger R. DeMille

DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0218048 BW644

DSC COMMUNICATIONS: DSC SONET digital loop carrier first to demonstrate  
OC-3 rates

March 20, 1991

Byline: Business Editors/Computer Writers

...networks  
to individual homes and businesses.

The advanced SONET OC-3 formatter included in this new offering  
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maintenance and test functions, remote provisioning, and improved...  
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